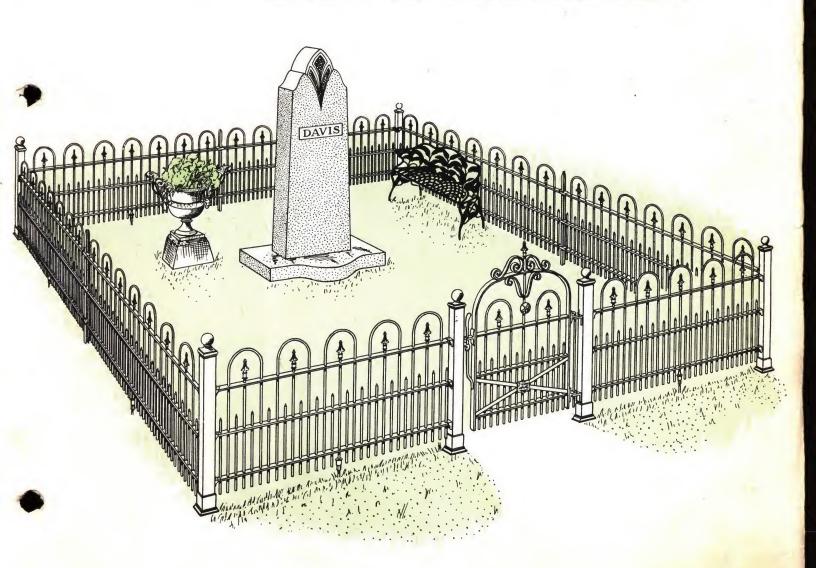
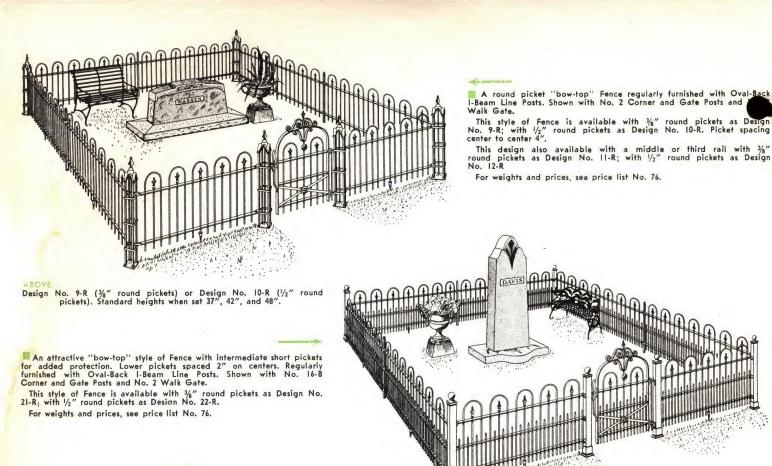


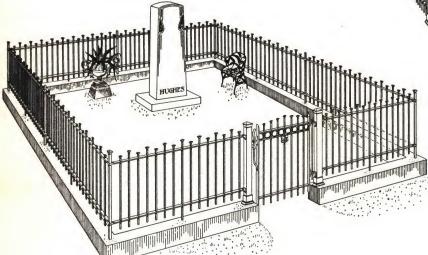
CEMETERY LOT ENCLOSURES

for...

BEAUTY and LASTING PROTECTION







Design No. 21-R (1/8)''' round pickets) or Design No. 22-R (1/2)''' pickets). Standard heights when set 37", 42", and 48".

A square set, Apex-topped square picket Fence with alternate long and short pickets adaptable to use on copings. Regularly furnished with Oval-Back I-Beam Line Posts. Shown with No. I Corner Posts and I6-B Gate Posts and No. 8 Walk Gate.

This style of Fence is available with $\frac{1}{2}$ " square pickets as Design No. 122-S; with $\frac{8}{3}$ " square pickets as Design No. 123-S, and with $\frac{3}{4}$ " square pickets as Design No. 124-S. Picket spacing for $\frac{1}{2}$ " square picket Fence 4"; for $\frac{8}{3}$ " and $\frac{3}{4}$ " square picket Fence 5" center to center.

For weights and prices, see price list No. 76.

Design No. 122-S (1/2" square pickets); Design No. 123-S (5/4" square pickets), or Design No. 124-S (3/4" square pickets). Standard heights for coping setting 24" or 30".

A plain milled point round picket Fence regularly furnished with Oval-Back I-Beam Line Posts. Shown with No. 3 Corner and Gate Posts and No. 2 Walk Gate.

This style of Fence is available with $\frac{1}{2}$ round pickets as Design No. 23-R; with $\frac{1}{2}$ round pickets as Design No. 24-R; with $\frac{1}{2}$ round pickets as Design No. 25-R.

Picket spacing for %" round and ½" round picket Fences 4"; for 5%" round picket Fence 5" center to center.

For weights and prices, see price list No. 76.

ABOVE:



Design No. 23-R ($\frac{3}{4}$ " round pickets); Design No. 24-R ($\frac{1}{2}$ " round pickets), or Design No. 25-R ($\frac{5}{4}$ " round pickets). Standard heights for $\frac{3}{4}$ " and $\frac{1}{2}$ " round pickets 37", 42", and 48"; for $\frac{5}{4}$ " round pickets 37" to 60".

A FINE MARK OF RESPECT FOR YOUR LOVED ONES

AN APPROPRIATE FENCE ENCLOSURE CREATES A VERITABLE GARDEN OF MEMORIES

It is a fitting tribute to the memory of those who have gone before, to set apart their resting place with a dignified fence enclosure. The protecting influence of a well-chosen fence permits the cultivation of flower beds and creates a setting for a veritable garden of memories.

A well kept burial plot is evidence of the respect one has for those who are "over there." It reveals the character of the person whose loved ones are buried therein.

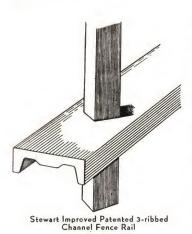
The plot enclosures shown in this brochure are four of the leading designs, but other fence designs as shown in our general catalog can be adapted to the same purpose.

We call your particular attention to the exclusive construction superiorities of Stewart Iron Fences, first, that they are made of copper-bearing steel for maximum rust resistance; second, they are furnished with our improved patented 3-ribbed channel rail; third, they are equipped with our sturdy Oval-Back I-Beam line of fence posts. Note carefully the advantages of Stewart construction as explained below.

Exclusive Stewart Features

The creation of the new and exclusively Stewart Oval-Back I-Beam Fence Post and the re-designing of our patented 3-ribbed channel fence rail marked another milestone of progress by the world's greatest fence builders.

These two major improvements emphasize Stewart superquality fence construction and the advantages are presented below



Stewart Fences long distinguished by the patented 3-ribbed channel rail, now have this most important structural member redesigned and improved. As the illustration to the left shows, we have deepened the flanges and added considerable metal to the center rib.

The Stewart improved patented 3-ribbed channel rail, with its extra metal around the punched holes for caulking into the pickets with our modern tools, binds them with a firmness which will withstand the most exacting tests.

The Stewart Oval-Back I-Beam line post is primarily a fence post - - being designed by Stewart engineers and takes its

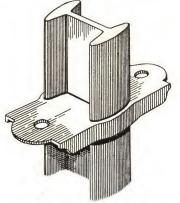
shape from rolls made for and owned by this Company.

The design and practicability of Stewart line-of-fence posts are a vast improvement over posts previously used. The flange of the post is oval-shaped for improved appearance and is of an I-Beam section for maximum strength per pound of metal.

Set in concrete, these posts need no braces. This removes what has been an objection to iron fences, for without braces

a fence is of neater appearance, and is easier to erect. Moreover, it presents a convenience in the mowing of the lawn.

With our Oval-Back I-Beam Line of Fence Posts, which are available in three sizes to meet particular requirements, we use a slip-over connection cap which hides the ugly rail ends and provides for length-wise adjustment as well as expansion and contraction



Stewart Oval-Back I-Beam Post with slip-over Connection Cap

while the set-screw arrangement permits the connection to be raised or lowered for adjustment.

The STEWART IRON WORKS COMPANY, Inc.

CINCINNATI, OHIO

STEWART ENTRANCE GATES and GATEWAY ARCHES



No. 5 Walk Gate and No. 13 Drive Gate - - with Nos. 16-D or 16-E Gate Posts and No. 1 Gateway Arch (II-inch letters).

Stewart Entrance Gates and Gateway Arches are furnished in a great variety of designs ranging from the severely plain to the elaborately ornamental. Design shown above is one of our plain designs yet very popular where a moderately priced entrance is desired.

The type of the Gateway Arches is dependent on conditions surrounding requirements and they are usually made in 10', 12', or 14' widths. Can be made in any width desired.

Letters are 11" cast type with oval face and Archway can be provided with lettering as desired.

SETTEES and



Many visitors to cemeteries and burial plots are older people who can not stand for many minutes at a time. It is essential to provide for their comfort with appropriate seating provisions. Stewart Settees are built for comfort and permanence and their practical value far outweighs their moderate cost.



ORNAMENTAL METAL **VASES** and URNS



Design DS-42 Vase

Stewart Vases with their reservoir watering features are not to be confused with ordinary receptacles for flowers and plants.

They are available in a variety of attractive finishes and may be had with or without handles as desired.

COMPLETE VASE AND SETTEE CATALOG UPON REQUEST

PRICE LIST

Applying to Stewart Cemetery Lot Enclosure Circular (Form #51244) (All Prices Subject To Change Without Notice)

			1			
* * DESIGNS * *	37 I	nches	42 Inches		48 Inches	
Design No. 10-R, per lin. ft.	Price \$.83	Weight 10#	Price \$.91	Weight 11#	Price \$.99	Weight 12#
Matching gate #2, (3' 2" wide) Design No. 2 gate and corner posts.	5.60	48#	5.60 6.55	52#	5.60 6.85	56#
No. 22-R, per lin. ft.	1.57	15#	1.67	16#	1.77	17#
Matching gate #2, (3' 2" wide) No. 16-B (2" sq. tubing) Gate & Corner Posts @	5.60	32#	5.60	34#	5.60	37#
Design No. 24-R, per lin. ft. Matching gate #2, (3' 2" wide)	.94 5.60	10#	1.00	11#	1.06	12#
No. 3 Gate & Corner Posts	7.25	50#	7.55	54#	7.85	58#
	.24 Inches		30 Inches			
Design No. 122-S for setting on coping, per lineal foot Matching gate #8, (3' 2" wide) For drop in gate, add \$3.00	1.12 9.00	Weight 9#	1.20 9.00	Weight 10#	ALL PRICES F.O.B. CINCINNATI OHIO	
No. 1 post, (1" square) as shown at corners @	2.50	28#	2.50	28#		
No. 16-B (2" sq. tubing) post as shown at Gates @	5.00	32#	5.00	32#		

THE FIRST THREE OF ABOVE DESIGNS are available at slightly less prices with 3/8" pickets, but 1/2" pickets are recommended as the more practical. All the designs are available with heavier than 1/2" pickets at prices which are available upon request.

PRICES AND WEIGHTS include the specified line posts as well as all rail connections, bolts, etc., panel center supports and one coat of Stewart's special black oil or red oxide paint -- complete material f.o.b. cars or wharf, Cincinnati, Ohio. Above prices are for the respective standard heights of fence and widths of gates, prices for other standard dimensions, as well as for variations from standard, are available.

GATES AND TERMINAL POSTS are measured in the line of fence, to the price of which is added the extra prices for gates and posts.

GRADING FENCE. On fence requiring a grade of 5/8" or over to the foot, we make the following charges:Graded 5/8" and less than 1" to the foot..10¢ per ft. extra
Graded 1" and less than 2" to the foot...20¢ per ft. extra
Graded 2" and less than 3" to the foot...30¢ per ft. extra

Fence graded 3" or over to the foot is considered to require Terrace Panels, for which special prices are available upon request.

Often a plate with the family name on it is wanted attached to the gate and they are available in cast iron, painted and faces of letters aluminumed bronze, at \$4.00 each with names of not more than seven letters. Add 10 cents for each additional letter or figure. Prices on bronze name plates or tablets are available upon request.

Terms to those of approved credit standing - Thirty days Net

12:13:16:0

In the last of

H. L. BRIAN 2023 N. Garrett Ave. DALLAS 6, TEXAS Phone T3-1233

By tewart

INDUSTRIAL SPECIFICATION MANUAL 1-42

for every industrial purpose

Protection AgainstEvery Contingency

Adequate protection for industrial property cannot be over-emphasized, and the property surrounded by a Stewart Iron or Chain Link Wire Fence is, indeed, Protected Against Every Contingency. In the pages of this catalogue are shown construction details of Stewart Chain Link Wire Fence and Entrance Gates (with and without barbed wire overhang arrangement). Also illustrated are typical installations in Iron and Wire as well as a number of metal specialties manufactured by Stewart for industrial use.



Sales and Erection Service

Stewart maintains sales and erection offices in all principal cities. Write, wire or telephone Hemlock 1985, Cincinnati, Ohio, for the name and address of the Stewart factory trained representative in your vicinity.

EXCLUSIVE"ALL BEAM" CONSTRUCTION

Stewart is the only fence manufacturer offering open section framework throughout in Chain Link Wire Fence framework construction. Section for section, Stewart Oval-Back I-Beam line posts, terminal posts, and top rails are the heaviest and strongest in standard use. Compare Stewart "ALL BEAM" construction with others.



CINCINNATI, OHIO

Write or wire the home office or telephone Cincinnati, Hemlock 1985 for address of nearest sales office.

SPECIFICATIONS . . .

ALL MATERIALS COPPER-BEARING STEEL, GALVANIZED AFTER FABRICATION



STYLE 3TH

HEAVY WEIGHT STYLE "3TH"

Standard heights 7 and 8 ft. overall. Built in heights from 6 ft. to 12 ft. inclusive. Fabric is 1 ft. less than overall height of fence. FABRIC (Galvanized AFTER Woven) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

LINE POSTS 21/4" Oval-Back I-Beam. 4.45 lbs. per ft. with integral tapered barbed wire extension arms. Posts are set 3' in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

TOP RAIL. 13/4" Oval-Back I-Beam. 2.43 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof. Fence 12' high and over furnished with middle rail corresponding in size and weight with top rail.

TERMINAL POSTS. End, corner and pull posts 3" I-Beam. 6 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.

RUST-RESISTING FABRIC TIES. No. 6 gauge round for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail. BRACING. For fence 6' high and higher, stiff leg brace 13/4" Oval-Back I-Beam. 2.43 lbs. per ft. with 3/8" round adjustable truss rod on all heights. One brace assembly for end and gate posts; two brace assemblies for corner and pull posts.

GATES. Framework 2" O.D. pipe. 2.72 lbs. per ft. Assembled with pressed steel fittings. Rust-resisting fabric fasteners used throughout. Gates securely braced and trussed. Guaranteed sag-proof. Furnished in any width desired.

GATE POSTS. 3" I-Beam (6 lbs. per ft.). Set 3' in concrete 12" dia. footings. For single gates up to and including 6' wide and for double gates up to and including 12' wide. 4" H-Beam (14.5 lbs. per ft.). Set 3' in concrete 15" dia. footings. For over 6' single up to and including 13' single; for over 12' double up to and including 26' double.

For extra width swing gates we use correspondingly heavier open section beam gate posts, either 6" H-Beam (24 lbs. per ft.) or 8" H-Beam (32.5 lbs. per ft.).

HINGES AND LATCHES. Hinges are heavy malleable iron. Off-set hinges are available when desired. Latches are pressed steel or malleable iron and work easily under all conditions. Latches equipped with padlock arrangement.

BARBED WIRE. 3 strands No. 12 gauge double galvanized copper-bearing steel wire with No. 14 gauge aluminum barbs spaced 4" apart.

COILED WIRE. When top rail is omitted we use a No. 6 gauge coiled wire in lieu thereof. Fastened to fabric with galvanized steel clips.

NOTE: This type is also available in a Medium Weight construction as style "3TM."

HEAVY WEIGHT STYLE "5TH"

Standard heights 7 and 8 ft. overall. Built in heights from 7 ft. to 12 ft. inclusive. Fabric is 1 ft. less than overall height of fence.

This style "5TH", except for the 5 strand barbed wire overhang feature, carries the same material specifications as style "3TH" described above. The line posts are furnished with inverted "V" integral extension arms, which obviously cannot be removed or broken.



STYLE 5TH

STYLE OTH

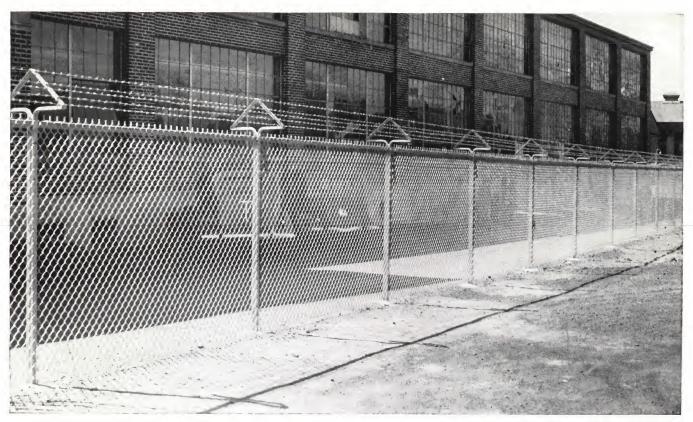
HEAVY WEIGHT STYLE "0TH"

Standard heights 6 and 7 ft. overall. Built in heights from 5 ft. to 12 ft. inclusive. In all details of construction, except for the omission of the barbed wire overhang arrangement, this "OTH" specification is the same as our style "3TH" as described at the top of this page.

All other material sizes, framework members, etc., as specified at top of this page, have equal application to style "OTH."

NOTE: This type is also available in a Medium Weight construction as style "OTM."

TYPICAL STEWART INSTALLATIONS

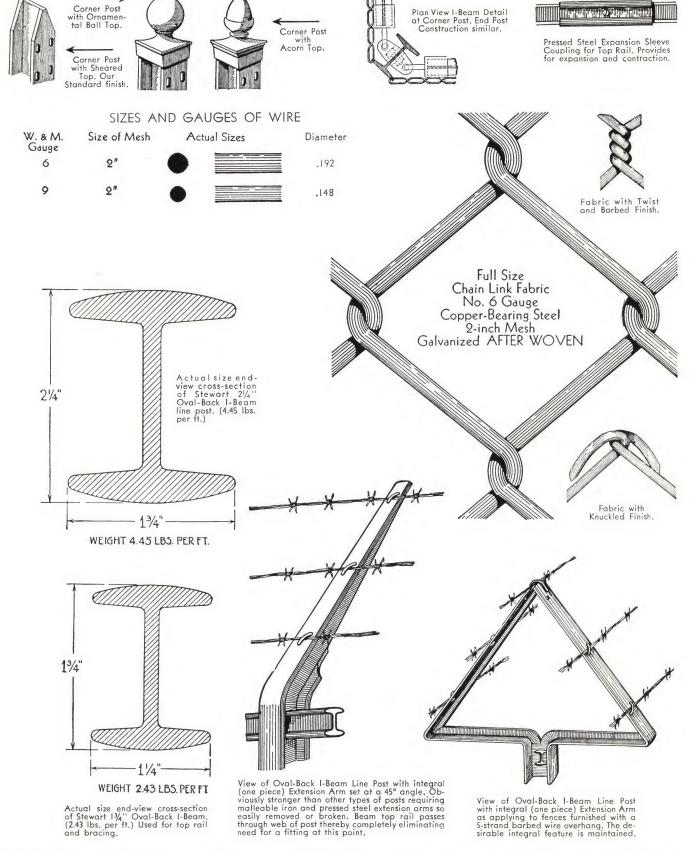


Style 5TH "ALL-BEAM" Chain Link Wire Fence assures two-way protection, safeguarding against hasty exits as well as unauthorized entrance. Style 5TH has five strand barbed wire overhang arrangement and same integral extension arm feature as Style 3TH shown below.



Style 3TH Chain Link Wire Fence showing famous "ALL-BEAM" construction, (solid open-section line and terminal posts as well as top rail) and the Oval-Back I-Beam Line Posts with integral, one piece extension arm, both exclusive Stewart features. Low concrete wall shown in foreground necessitated unusual installation.

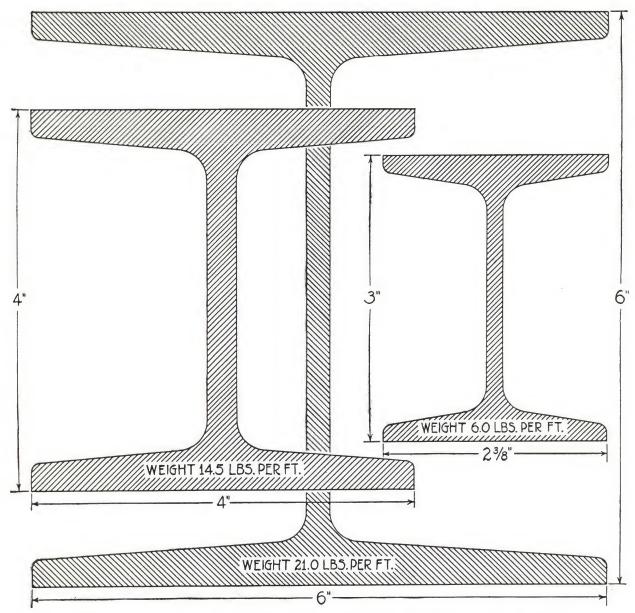
EXCLUSIVE CONSTRUCTIONAL DETAILS



Stewart Open Section "All-Beam" framework is recommended for it is heavier, stronger and obviates the need for bolts, end bands and tension bars which are often the first parts to break down with rust. Open Section Beam construction by its very nature is not subject to internal moisture accumulation as is the case with pipe or tubular framework.

All constructional details as covered within this bulletin are based on our standard and recommended "All-Beam" framework, but Stewart IS PREPARED TO FURNISH FENCE FRAMEWORK INVOLVING THE USE OF PIPE AND OTHER SHAPES.

EXCLUSIVE CONSTRUCTIONAL DETAILS



Actual size end-view cross-section of Stewart galvanized I-Beam and H-Beam sections used for end, corner and gate posts. Sections of a correspondingly larger size are available for unusually wide gates.

CORNER POST 3*1 DEAM WIT BUSY FABRIC PROPOST --METHOD OF WEARING FABRIC PROPOST TOP PARA, 14% OWAL PACK FROM WIT 7 45* For WITE WASHINGS OF *6 DARKE WITE WASHINGS OF *6 DARKE WITE WASHINGS OF *6 DARKE READ WITE A 55* For 100 BEARING SAN T 2 45* FOR 100 BEARING SAN T 2 45*

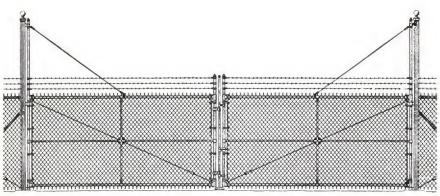
EXCLUSIVE CONSTRUCTIONAL FEATURES

All materials galvanized AFTER fabrication

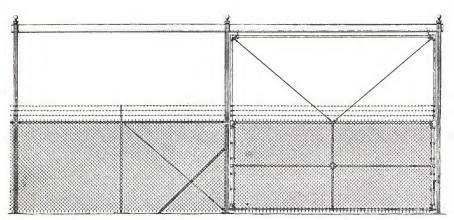
- 12-gauge double galvanized copper-bearing steel barbed wire with 14-gauge aluminum barbs spaced 4 in. apart. Securely fastened to flange of post thereby affording rigid connection,
- 2 Stiff leg bracing as used for fences 6 ft, high and higher. Brace is set into a concrete footing with an auxiliary $3\!/\!_8$ in. round adjustable truss rod.
- Chain link fabric spirals through the slots in terminal posts in "corkscrew" fashion. Such construction eliminates need for bands, bolts, tension bars, and other rust points.
- Oval-Back I-Beam top rail passes directly through intermediate line post and forms brace full length of the fence line. Adjustable expansion sleeves are used to connect sections of top rail.
- Oval-Back I-Beam Line Posts with integral (one piece) Extension Arm.
 Obviously superior to types of posts requiring malleable iron and pressed steel extension arm so easily removed or broken.
- The Stewart Oval-Back I-Beam section takes its shape from rolls owned by this company. Designed primarily for fence use, the material is so distributed as to be strongest at the greatest points of strain.

STEWART CHAINLINK WIRE GATES . SWING and SLIDE TYPES

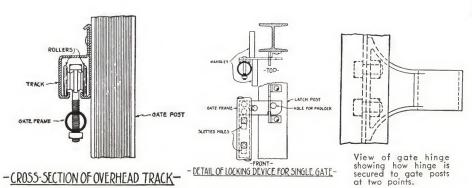
View of "Heavy-Weight" Double Swing Gate. Single gates are composed of identical material sizes.



View of "Heavy-Weight" Double Swing Gate as used for openings over 12' single and over 24' double, Note overhead truss arrangement.



Sliding Gates for openings from 4' to 15' single and 8' to 30' double, or wider if desired. Equipped with special overhead track, support and trolley arrangement that makes for easy operation. Standard clearances are 8', 12', 22'.



Stewart Swing Gates, Single or Double, with or without barbed wire feature are furnished in two specifications.

"HEAVY WEIGHT" SPECIFICATION

Framework 2" O.D. pipe for fence styles 3TH, 0TH and 5TH. Built in any width desired.

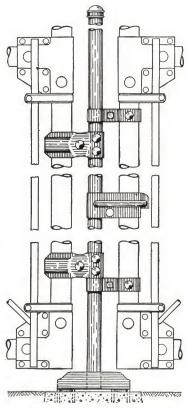
Single Gates — Over 12' wide and double gates over 24' wide carry an overhead truss for additional strength.

"MEDIUM WEIGHT" SPECIFICATION

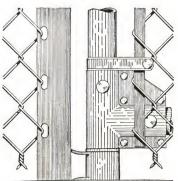
Framework $1\frac{1}{8}$ " O.D. pipe for fence styles 3TM and 0TM. Built in widths up to and including 12' single and 24' double.

Extra wide gates for fence styles 3TM and 0TM take heavy weight specifications with overhead truss arrangement.

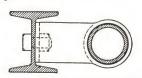
The height of the gate and the gauge of the fabric filler is governed by the matching fence.



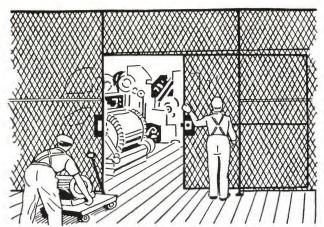
Detail of double gate latch assembly for heavy weight gates.



Close-up detail of malleable iron gate hinge.



Plan view of gate hinge showing how hinge is secured to the web of the open section gate post.



WIRE MESH PARTITIONS. Fig. SE-42-1. Effective, economical enclosures for interior stock room and other similar purposes, allowing maximum light and ventilation. Partitions are sectional and may be inter-changed or rearranged at any time. Standard partitions of 1½" diamond mesh, No. 10 W. & M. gauge wire and 1½" x ½" channel framing, Other sizes are available. When requesting prices, please send diagrammatic sketch giving measurements, location of doors, pass-out windows, etc.

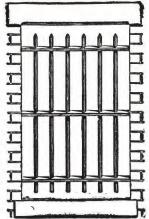
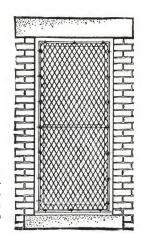
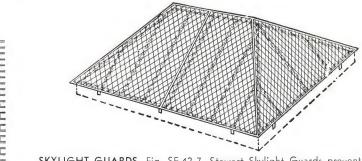


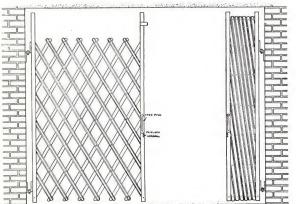
Fig. SE-42-6. Wire window guards (right) are made any size, any shape. We furnish 1½ inch 10-gauge wire for usual installation. When requesting prices on iron or wire window guards, be sure to give size of openings.



WINDOW GUARDS. Iron and Wire. Fig. SE-42-5. Iron window guards (left) are available with or without ornamentation. $\frac{3}{8}$ to $\frac{3}{4}$ inch round or square pickets are used.



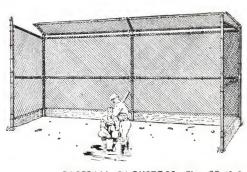
SKYLIGHT GUARDS. Fig. SE-42-7. Stewart Skylight Guards prevent glass breakage and unwarranted intrusion. When writing for prices, please give complete measurements involved.



FOLDING GATES. Fig. SE-42-2. Furnished in single or double gate construction with or without overhead track to fit any size opening. When writing for information please give width and height of openings and height of gate desired when extended across opening.



MACHINERY GUARDS. Fig. SE-42-11. Available in types and sizes to fit every requirement. Special enclosures, such as cages, pens and other guards are manufactured by Stewart. Please send measurements involved when writing for quotations.



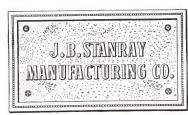
BASEBALL BACKSTOPS. Fig. SE-42-8. Regularly furnished 20 ft. wide with 10-ft. wing on either side. Above center sections is 4-ft. overhang to deflect balls. Can be furnished special sizes. Complete specifications on request.



FLAG POLES. Fig. SE-42-3. Full weight, standard pipe heavily galvanized after fobrication. Furnished with non-jamming pulley. When requesting quotations please indicate desired height above ground line.



TRASH CANS. Fig. SE-42-4. Stewart self-closing top trash cans are heavily corrugated standard galvanized steel can with snug fitting lid. Capacity 27 gallons. Please indicate quantity desired when writing for prices.



BRONZE TABLETS. Fig. SE-42-9. Made of hand chased cast bronze, these tablets are positively free from imperfections and are imperishable. Sketches and estimates on request.



Available in many sizes and metal combinations. Lanterns are furnished completely wired and with glass, but not bulbs. Complete information on request.



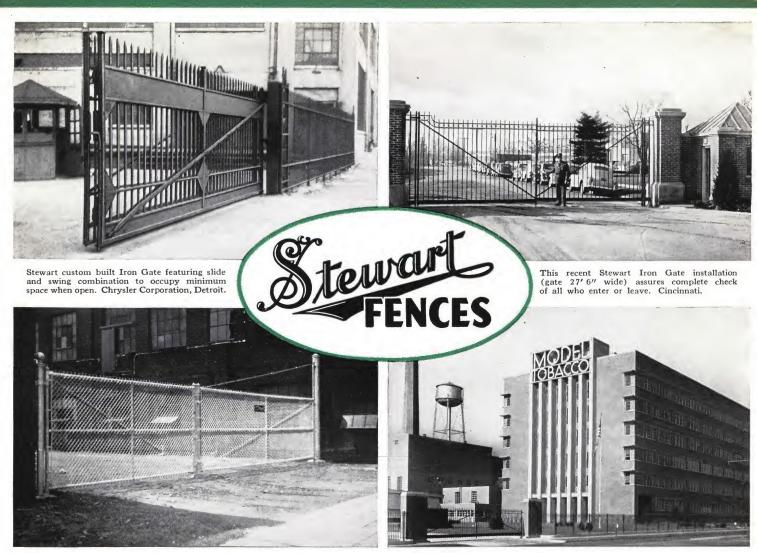
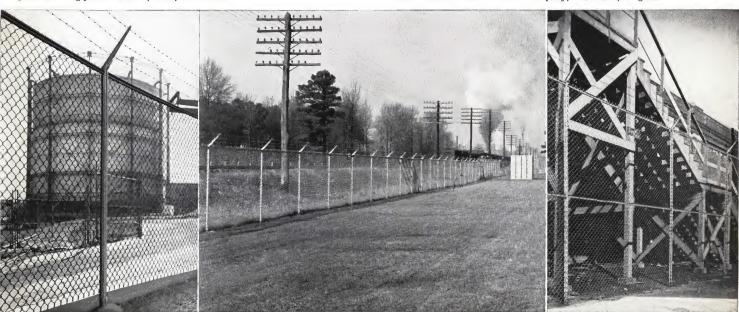


Illustration shows a Stewart Chain Link Wire Gate measuring 32', consisting of 12' and 20' sections. Stewart Gates are securely braced and trussed, and guaranteed sag-proof. Warren, Ohio, installation.

Several thousand feet of Stewart Iron Fence on frontage affords dignity and beauty as well as utility. Style 3TH Chain Link Wire Fence guards rear lines. United States Tobacco Company, Richmond, Virginia.



Utilities property protected with Stewart 3TH Chain Link Wire Fence. Notice sturdy construction of Beam Framework,

Stewart 3TH Chain Link Wire Fence at rear of the United States Tobacco Company property located at Richmond, Virginia. Stewart Iron Fence at front shown in illustration just above, at right.

At Crosley Field, home of the Cincinnati Reds, a Stewart 3TH Chain Link Wire Fence keeps crowds under control.

THE STEWART IRON WORKS CO., INC.



MANUFACTURERS OF FABRICATED METAL SPECIALTIES

P. O. BOX No. 1039

CINCINNATII, OHIO.



FORM 67169 - 7-44 CL

AREA GRATINGS BALCONY RAILINGS BASKET BALL

GOAL IRONS

BRACKET LANTERNS BRONZE TABLETS

BRUSH GUARDS

CELLAR DOORS

CHAINLINK WIRE FENCE

DISPLAY STANDS

ENTRANCE GATES

FLAG POLES

FOLDING CHAIRS

LDING GATES FWAY ARCHES

GRATINGS

GRAVE MARKERS

GRILLES

INTERIOR GATES

IRON PICKET FENCE

LAMP GUARDS

LAWN FURNITURE

LAWN WICKETS

MEAT HOOKS

ORNAMENTAL. IRON WORK

PARK BENCHES

PIPE RAILINGS

PORCH RAILINGS

SETTEES

SIGN BRACKETS

SIGN STANDARDS

STABLE FITMENTS

STADIUM SEAT BRACKETS

STEEL DOORS

TREE GUARDS

VASES AND URNS

WINDOW GUARDS

PARTITIONS

ETC.

April 21, 1949

TO ALL STEWART REPRESENTATIVES

Subject: Wood Slat Settees

We are happy to announce that wood slat settees are available now !

There are many instances where a fence prospect is also a settee prospect and a bit of suggestive selling on your part may result in an additional order.

We have these wood slat settees (#370) in stock and can make immediate shipment.

Circular is enclosed illustrating the design. enclosed price list 49-WS is applicable. Note prices are F.O.B. Cincinnati.

Your discount will be 10% from the prices shown on the price list.

Very truly yours,

THE STEWART IRON WORKS COMPANY

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Vorg Lindy you as

The first of post of a time and

ere's why you should buy



CHAIN LINK WIRE FENCE
with
EXCLUSIVE ALL-BEAM FRAMEWORK

ACME FENCE COMPANY 2023 NO. GARRETT AVE. DALLAS 6. TEXAS

STEWART CHAIN LINK WIRE FENCE ALL-BEAM FRAME

CONSTRUCTION (Framework) — All-Beam throughout. Stewart open section framework with solid I-Beam top rails, line and corner posts, is stronger, heavier, more corrosion-resistant. It will last longer and cost less to maintain. Line posts and extension arms are an integral unit. Arm cannot be broken or lifted off . . . a very important consideration. (FABRIC) two types are available. I) Copper-bearing steel No. 9 or No. 6 gauge, 2" mesh, galvanized after woven. 2) Bethanized wire. A coating of 99.9% pure zinc coating is deposited on the wire by an electrolytic process. This gives the fabric greatest possible resistance to corrosion and extra long life. Bethanized wire is recommended for those who want the utmost in fence protection.

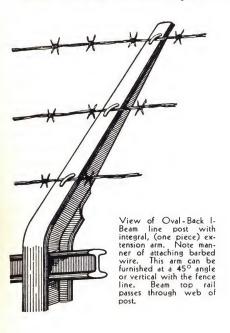
STRENGTH — Here Stewart Heavyweight All-Beam Framework has a big advantage. Compare the weights of Stewart Framework with any other wire fence framework manufactured and you will find that section for section Stewart is heavier. This extra weight in line posts, top rail, terminal posts

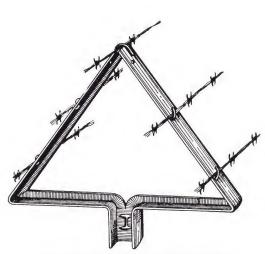
and bracing means that you get a stronger fence — one that will give you many additional years of low cost service.

FITTINGS — Stewart All-Beam Construction eliminates the need for most fittings. Top rail is run through a slot in the web of line posts. No fittings required. Extension arm is a part of the line post. No fittings required. Fabric is threaded through slots in terminal posts, eliminating the need for bands, bolts, tension bars, etc.

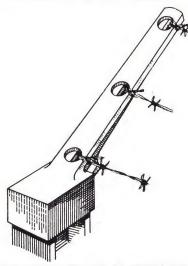
GREATER RESISTANCE TO CORROSION—A heavily galvanized solid steel beam offers maximum resistance to corrosion, and the smooth, clean surfaces of Stewart All-Beam Framework, together with the elimination of many fittings, assure the greatest possible resistance to rust. This means longer life and lower upkeep expense.

CHECK THE FEATURES ILLUSTRATED — Compare them with the wire fence framework of other manufacturers, and you'll have many reasons why you should buy Stewart Chain Link Wire Fence with All-Beam Framework.





View of Oval-Back I-Beam Line Post with integral, (one piece) Extension Arm as applying to fences furnished with a 5 strand barbed wire overhang. The desirable integral feature is maintained.



MALLEABLE IRON END OR CORNER POST EXTENSION ARM (OPEN SECTION CONSTRUCTION) Barbed wire extension arm set at 45° angle.

No. 12 gauge double galvanized Copper-Bearing steel barbed wire with No. 14 gauge aluminum barbs spaced 4" apart. Securely fastened to flange of post thereby affording rigid connection.

Stiff leg bracing as used for fences 6' high and higher. Brace is set into a concrete footing with an auxiliary 3/8" round adjustable truss rod.

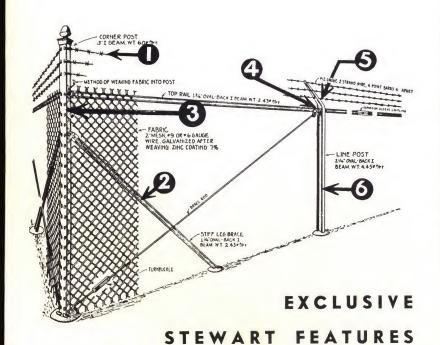
Chain Link fabric spirals through the slots in terminal posts in "cork screw" fashion. Such construction eliminates need for bands, bolts, tension bars, and other rust points peculiar to other makes.

Oval-Back I-Beam top rail passes directly through the intermediate line post and forms a brace the full length of the fence line. Adjustable expansion sleeves are used to connect the sections of top rail.

Oval-Back I-Beam Line Posts with integral (one piece) Extension Arm. Obviously superior to other types of posts requiring malleable iron and pressed steel extension arm as so easily removed or broken.

The Stewart Oval-Back I-Beam Line Posts take their shape from rolls owned by this Company. Designed primarily for fence use, the material is so distributed as to be strongest at the greatest points of strain.





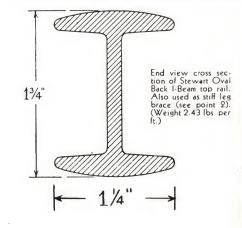
View of Oval-Back I-Beam line post with integral, (one piece) vertical Extension Arm. Obviously stronger than other types of posts requiring malleable iron and pressed steel extension arms so easily removed or broken. Beam top rail passes through web of post thereby completely eliminating need for a fitting at this point.

WORK is the HEAVIEST and STRONGEST MANUFACTURED

Weight chart below presents graphically a comparison in weights between Stewart Beam Sections and the ordinary pipe framework such as used by several other manufacturers. We urge that you compare these weights with any other fence framework on the present day market then you be the judge.

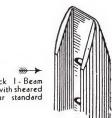
COMPARATIVE WEIGHTS OF	Stewart "Beam" Construction Per Foot	Pipe Construction Per Foot	
Line Posts Top Rail Terminal Posts (End and Corner) Bracing Gate Posts, 3" Gate Posts, 4"* Gate Posts, 6"* Gate Posts, 8"*	2.43 lbs. 6.00 lbs. 2.43 lbs. 6.00 lbs. 14.50 lbs. 21.00 lbs.	3.65 lbs. 2.27 lbs. 5.79 lbs. 2.27 lbs. 5.79 lbs. 9.10 lbs. 18.97 lbs. 24.60 lbs.	

^{*}Gate Posts larger than 3" are H-Beam with extra weight for greater strength. Above weights based on our recommended Heavy Weight specification.





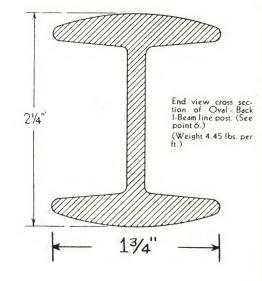
Oval-Back I-Beam Line Post with Acorn Top for Fence Style OTH. Note punching in web of post through which top rail passes.

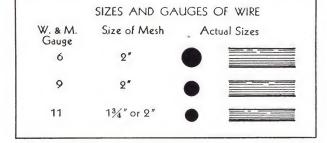


Oval - Back	
Line Post with	sheared
top. Our	standard
finish.	



Detail of Stewart I-Beam corner post. Fabric is woven into flange of Beam in "cork screw" fashion thereby eliminating the need for tension bars, bands, bolts and other commonly-known rust points. Such construction requires but 12 fittings while with other types of Chain Link Fence furnished with pipe construction, 35 to 50 fittings are required.





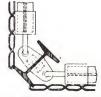




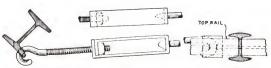
Aluminum rust-resisting fasteners are used for attaching the fabric to the line posts and top rail.



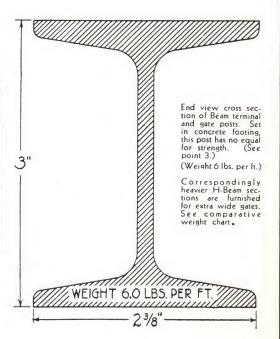
Right: Stewart style OTH (heavyweight) All-Beam construction. Also avail-able in medium weight style OTM which is rec-ommended for residential

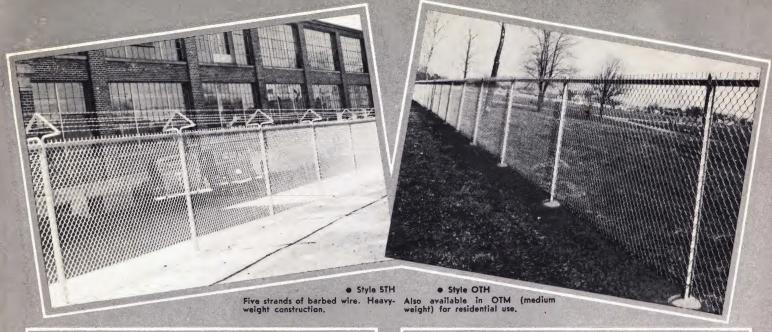


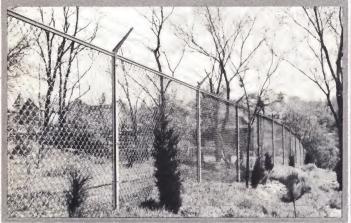
This plan view of terminal post shows clearly how the knees for top rail and stiff leg brace are attached to the posts



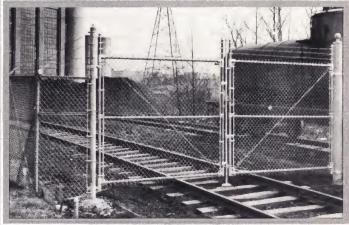
Above is illustrated the type of adiustable brace rod that is furnished for all terminal and gate posts. Note a \(^3\)\(\ell'\) round solid rod is furnished instead of the usual twisted wire type of brace. No connection is necessary where brace rod hooks into the flange of the terminal and







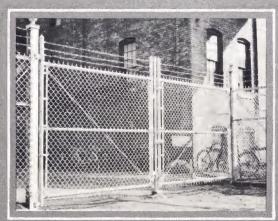
• Style 3TH protects remote property lines of large estates.



· Stewart heavyweight double gates for railroad sidings.

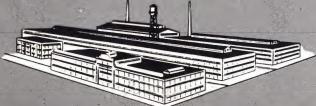


• Another Stewart 3TH heavyweight in-stallation.



• Double drive gates, heavyweight construction.





Bethanized Wire

If desired, Bethanized Wire can be furnished for Stewart Chain Link Wire Fences and Gates



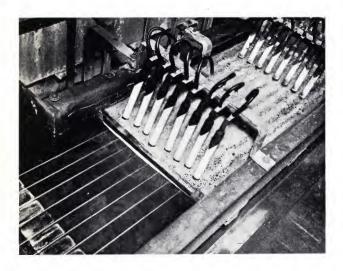
P O BOX NO. 1039 CINCINNATI 1 OHIO

Fence Builders to America Since 1886



Bethanized Wire SIMP.

... makes a better product



WHAT IT IS — The bethanized coating is entirely different from other zinc coatings. The difference is due to the fact that the zinc is applied by an advanced electrolytic process which is a clean-cut departure from older methods. Electricity makes the bethanized coating virtually a part of the wire itself and insures the protective armor being pure zinc all the way through, entirely free from any layer of zinc-iron alloy. Because of its superior purity, tightness and uniformity, the bethanized coating gained immediate recognition when it was introduced in 1933. Now, after years of testing in every type of wire fabrication and atmospheric exposure condition, bethanized wire has earned a reputation for outstanding service and thorough-going dependability.





HOW IT FABRICATES — Bethanized wire withstands severe fabrication very much better than wire zinccoated by older methods. The pure bethanized zinc coating possesses the characteristics of a virgin metal—one of which is an exceptionally high ductility. You can twist bethanized wire around its own diameter or bend it flat back upon itself without flaking or peeling the zinc. Even more surprising, you can draw large gage bethanized wire down to very fine gage without removing the coating. Test bethanized wire in your own shop and see for yourself how efficiently it handles difficult jobs. Bethanized wire can be supplied in any desired grade of steel and is suited for use in all commercial products where galvanized wire and wires with other types of coatings are commonly used.



Old Type Coating

Bethanized Coating

WHY IT RESISTS CORROSION — Bethanized wire has maximum resistance to corrosion as a result of the perfect uniformity of the bethanized coating over every part of the wire. This uniformity is the inevitable result of the electrolytic bethanizing process. Since the zinc is fastened to the wire atom by atom by a steady current it cannot be other than uniform. There are no thin spots in the coating to give rust a start.

MES MANUFACTURING





HEAVIER COATINGS INCREASE SERVICE

Any predetermined amount of zinc within practical limits can be applied by the bethanizing process. For example: the bethanized "B" and "C" coatings are respectively two and three times as heavy as an ordinary hot-dipped double-galvanized coating.

A.S.T.M. tests clearly indicate that service life is at least directly proportional to weight of coating. You may therefore expect at least double and triple service from these two heavier bethanized atings. Heavy-coated bethanized wire can frequently be used meet corrosive conditions that formerly required much more expensive materials.

SOME APPLICATIONS OF BETHAN-IZED WIRE — The applications for bethanized wire are practically limitless. Every day finds it solving new problems. Here are a few examples of products where bethanized wire has been doing a thoroughly efficient job:

Strand (Messenger, Guy)
Twisted Wire Brushes
Conveyor Belt Fabrics
Mattress Springs
Wooden Pipe Reinforcing
Ruralductor

(Single and Composite)
Lead Cable Supports
Baby Carriage Wheel Spokes
Milk Crate Bottle Divisions
Solid Clothes Lines
Various Wire Forms
Cot Link Fabric

Telephone Wire
Chain Link Fence
Lawn Fence
Farm and
Poultry Fence
Pump Chain
Nails
Rope Wire
Pail Bale Wire
Mattress Wire
Bed Spring Wire
Vineyard Wire
Choke Wire

Helical Spring (Infant Swings, etc.) Coat Hanger Wire (all wire and wood) Hexagon Fence Fabric for Oyster Beds Automobile Hood Hinge Pin Rods

MANUFACTURERS' WIRE

Classification and Extras Applying to Zinc Coated (Galvanized and Bethanized) Manufacturers' Wire in Coils Extras per 100 pounds over Base for Bright Wire Carloads (not less than 1000 lbs. of an item)

Gage	Size Extra	Single Galva- nized Type 1	Inter- mediate Galva- nized or Bethan- ized Type 2	Special Galva- nized Bethan- ized "A" Type 3	Bethan- ized "B" Coating	Bethan- ized "C" Coating
*Coarser than		* • • • •		** **		
1/2" Diam.	\$.40	\$.90	\$.90	\$1.15		**********
*Coarser than	25	00	0.0			
1/4" to 1/2"	.25	.90	.90	1.15		_
Coarser than						
6 to ½"	10	.90	.90	1.15	\$2.15	\$3.15
6 to 9 Incl.	Base	.65	.75	.90	1.90	2.90
10	.05	.65	.75	.95	1.95	2.95
11	.10	.65	.75	.95	1.95	2.95
12	.15	.70	.85	1.05	2.20	3.35
13	.25	.75	.95	1.20	2.50	3.80
14	.35	.85	1.10	1.35	2.75	4.15
15	.55	.95	1.30	1.65	3.10	4.55
16	.75	1.00	1.50	2.05	3.55	5.05
17	1.00	1.10	1.65	2.25	3.95	5.65
18	1.50	1.40	2.15	2.90	4.70	6.50
19	2.00	1.50	2.30	3.20		
20	2.25	1.60	2.55	3.50	_	_

Half gages take the coating extra for the next heavier gage.
*Not now within our range of manufacture.

Maximum Size Galvanized — 2 Ga.

Maximum Size Bethanized — ½"

STRIPPING TEST VALUES

Determined in accordance with A. S. T. M. Spec. A-90-33 Expressed in ounces of zinc (minimum) per square foot of bare wire surface.

Gage	Single Galva- nized Type 1	Inter- mediate Galva- nized or Bethan- ized Type 2	Special Galva- nized or Bethan- ized "A" Type 3	Bethan- ized "B" Coating	Bethan- ized "C" Coating
5 and coarser	.65 oz.	.75 oz.	.90 oz.	1.80 oz.	2.70 oz.
6	.50 "	.70 "	.90 ''	1.80 "	2.70 "
7 to 9 incl.	.40 ''	.60 "	.80 ''	1.60 "	2.40 "
10 to 12 incl.	.30 ''	.50 "	.80 "	1.60 "	2.40 "
13	.30 "	.50 "	.70 ''	1.40 "	2.10 "
14	.25 "	.45 "	.65 ''	1.30 "	1.95 "
15 and 16	.15 ''	.35 "	.50 "	1.00 "	1.50 "
17 and 18	.15 "	.30 ''	.40 ''	.80 "	1.20 "
19	.10 ''	.30 ''	.40 ''		
20	.10 "	.30 "	.40 ''		-

Prices for any coatings other than those shown above will be furnished on request.

Sethanized Wire How to Test Z

AND OTHER ZINC-COATED WIRE

ZINC COATING

TO DETERMINE WEIGHT OF COATING

Use the strip test, or Hydrochloric-Acid Antimony-Chloride Method, described in Specification A-90-30 of the A.S.T.M.

SOLUTIONS REQUIRED:

Antimony Chloride Solution-Dissolve 20 grams of antimony trioxide or 32 grams of SbCl3 in 1000 cc. of HCl (Sp. gr. 1.19).

Hydrochloric Acid—Concentrated HCl (Sp. gr. 1.19).

PROCEDURE:

The sample shall be cleaned with gasoline or benzine and dried thoroughly, and then carefully weighed to 0.01 gram. The sample shall be stripped of the zinc coating by immersing in a solution made by adding 1 cc. of the antimony chloride solution to 100 cc. of the concentrated HCI.

As soon as the violent chemical action on the wire ceases, the wire shall be removed from the acid, washed thoroughly and wiped dry.

The diameter of the wire shall then be determined to 0.001 inch by taking the mean of two measurements at right angles to each other. The stripped sample shall then be weighed to 0.01 gram.

CALCULATIONS:

The original weight minus the weight of the stripped sample, divided by the weight of the stripped sample, gives the ratio of zinc to iron for the sample under test. The weight of coating in ounces per square foot of stripped wire surface is determined by multiplying the constant 163 by the diameter in inches of the stripped

wire by the above ratio. This calculation may be expressed by the following formula:

Ounces of zinc per square foot of stripped wire surface = 163 d r

where d = the diameter of the stripped wire;

Original weight-stripped weight

This method is not subject to the inaccuracies of the Preece test ("dip-test") frequently in use in the past. The results obtained by the Preece test are influenced greatly by variation in the technique of testing, the character of the solution and the purity of the zinc coating. These errors, especially in case the zinc contains impurities such as iron, may produce Preece-test results that will indicate a much heavier coating weight than is actu ally the case. The inaccuracies of the Preece test are very clearly brought out in Bureau of Standards Research Paper RP 688 of June 1934.

Some specifications for charcoal wiped galvanized wire ("double" or "special" galvanized) carry both requirements as to coating weight; by a stripping test as referred to above and also a four-immersion Preece test. Our type "A" bethanized wire will meet these requirements. Obviously, the heavier coating weights B and C will show more immersion in the Preece test, but the real value of these heavier coatings is accurately shown by the strip test.

TO DETERMINE DUCTILITY OF COATING

Use the Mandrel Test.

Sample is wrapped around a mandrel of diameter equal to its own. Two or more turns at the rate of 15 turns per minute, constitute the test. There must be no flaking or peeling.



BETHLEHEM STEEL COMPANY, General Offices: Bethlehem, Pa. District Offices: Akron, Albany, Atlanta, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Columbus, Dallas, Denver, Detroit, Hartford, Honolulu, Houston, Indianapolis, Johnstown, Pa., Kansas City, Mo., Los Angeles, Louisville, Milwaukee, Nashville, New Haven, New Orleans, New York, Philadelphia, Pittsburgh, Portland, Ore., St. Louis, St. Paul, Salt Lake City, San Antonio, San Francisco, Savannah, Seattle Springfield, Mass., Syracuse, Toledo, Tulsa, Washington, Wilkes-Barre, York. Export Distributor: Bethlehem Steel Export Corporation, New York



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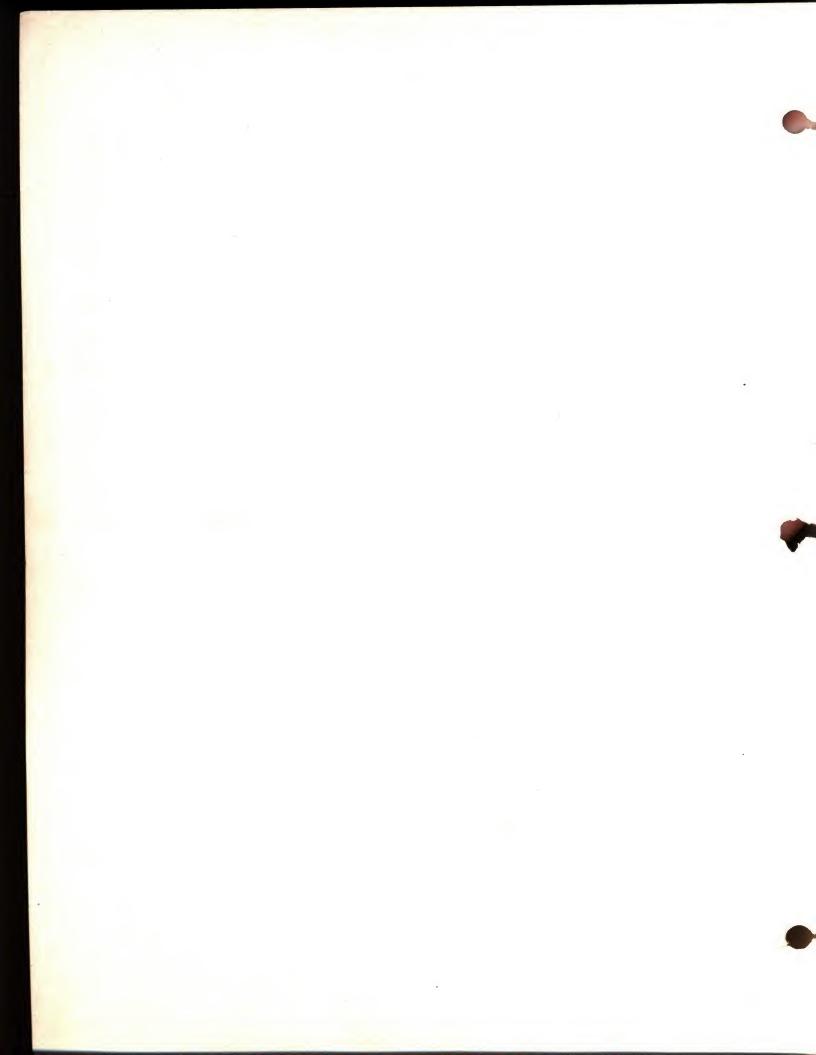
The Ultimate in Protection

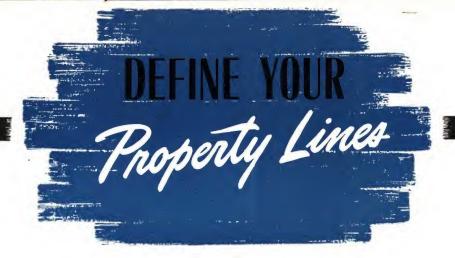


FENCES

H. L. BRIAN 2023 M. Garrett Ave. HALLAS H. TEXAS Phone TS-1233

Catalog No. 83





No individual, industry or nation, deliberately invites trouble, yet all recognize the paredness. Millions are spent nse against maintenance of adequate nation invasion. Such defense is never accomplishes its purpose.

For homes and industrial proper grounds, recreation centers, mem letic fields, schools, colleges, instit sanatoriums, and countless other energiame security and protection against trespass and vandalism are equally essential.

While fence is primarily considered as a measure of defense, it can so be made an attractive, decorative unit in the leatures of the property which it surrounds in the unobtrusive finish or frame a true picture of a landscape setting; acelle tly as a supporting structure lants of the rambling variety.

low cost, dependable, unfailing protection, choose a Stewart Fence designed to meet your specific the reassuring knowledge that con letely safeguarded with the control of the cont

HOW TO MEASURE

It is imperative that we, or the Stewart Fence Representative with whom you are dealing, have a thorough working knowledge of your requirements in order to accurately estimate on your particular needs.

A rough pencil sketch or diagram of your proposed fence lines, indicating the lineal footage of fence,

width and number of gates, corner and end posts required, together with your selection of the fence designs and the height desired, will enable our Estimating Department or the Stewart Fence Representative to prepare quotations.

SEE TYPICAL DIAGRAMS BELOW

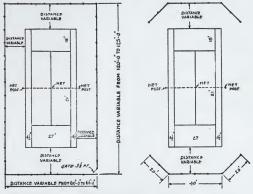
TYPICAL BILL OF MATERIALS FOR 3TH NON-CLIMBABLE FENCE 180 ft. Style 3TH 2" No. 9 x 7'0" high

over-all 1-Single Gate Style HW 4'0" wide

- 1-Double Gate Style HW 12'0" wide
- 4-Gate Posts 3" I-Beam
- Corner Post 3" I-Beam
- -End Posts 3" I-Beam

196 ft. (including gate footage) to be erected.

TENNIS COURT DIAGRAMS



Diagrams shown opposite contemplate:

A. Complete enclo-sure with gate sure with gate opening at one corner.

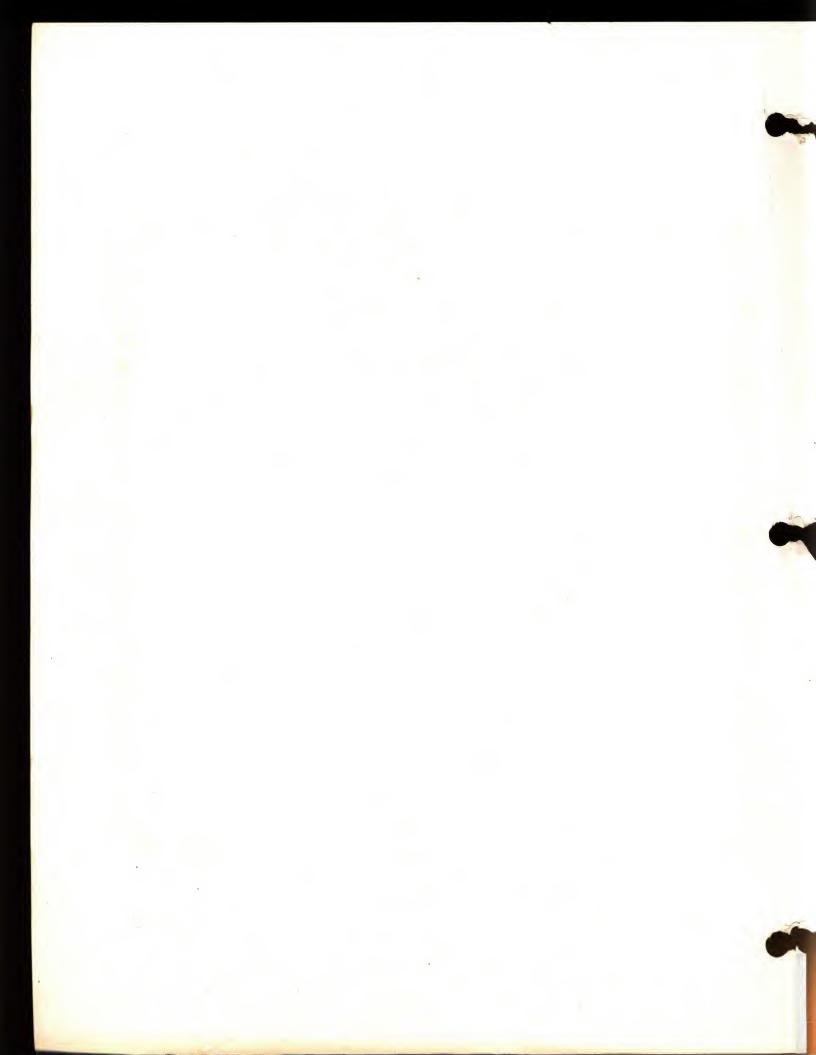
B. Backstops only.

When requesting prices, indicate plan of construction desired.

DIMENSIONS OF STANDARD TENNIS COURTS

Distance from baselines and sidelines of court to backstops is "variable." Twenty feet is a practical minimum for the distance from baselines to backstops; but twenty-five feet is preferable.

ORKS COMPANY - CINCINNATI, OHIO, U. S. A.





for every purpose

INTRODUCTION

- For sixty years Stewart has specialized in the design and manufacture of Iron and Chain Link Wire Fences and Entrance Gates for all types of property. Since it was founded in 1886, a lifetime of experience has been acquired by this organization, which has been and now is under the personal direction of a member of the Stewart family.
- This is a Chain Link Wire Fence catalogue. It contains complete specifications, details of constructional features, typical installations, data on other Stewart metal products allied to the fence industry, and other pertinent information.
- Should you desire details on Stewart Iron Fence and Entrance Gates, we shall be glad to send you our Iron Fence catalogue which illustrates and describes various types of fence and gates in plain and ornamental iron.
- Stewart engineers are at your service to assist you in the selection and erection of the proper fence to meet your requirements. Layouts, estimates, and all necessary information will be furnished on request. There is no cost or obligation.



Stewart Fences are indentified by this well-known shield—a symbol of quality and dependability.

Stewart representatives are located in all principal cities.



THE TEWART IRON WORKS COMPANY

CINCINNATI, O. - COVINGTON, KY.



Stewart 3TH Non-Climbable Chain Link Wire Fence provides an effective barrier against unwarranted trespass. Illustrated below is a Stewart installation at the Central Indiana Gas and Electric Company, Anderson, Indiana.





FENCE STYLE 3TH - Heavy Weight Construction

Standard Heights 7' and 8' overall. Built in heights from 6' to 12' inclusive. Fabric is 1' less than over all height of fence.

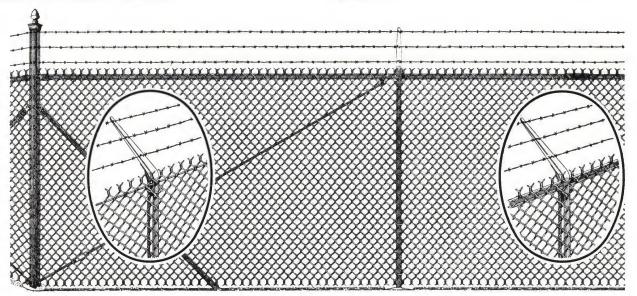
FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

FRAMEWORK (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength, weight and corrosion resistance. With open section framework the line post and extension arm being one continuous section, makes for a stronger unit than a separate arm and cannot be broken or lifted off.

TOP RAIL. 1¾" Oval-Back I-Beam. 2.43 lbs.per ft. or 15%" O.D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof. Fence 12' high and over furnished with middle rail corresponding in size and weight with top rail.

TERMINAL POSTS. End, corner and pull posts 3" I-Beam. 6 lbs. per ft. or 3" O. D. pipe. 5.79 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.

POST TOPS. Terminal and gate posts are vertical, full height of fence with standard sheared finish or ornamental tops. Heavy malleable 45° extension arms are available for terminal posts. See pages 32, 34 and 35.



Inset:—Style 3WH with Open Section Line Post Without Top Rail.

LINE POSTS. 2½" Oval-Back I-Beam. 4.45 lbs. per ft. with integral tapered barbed wire extension arms or 2½" O. D. pipe. 3.65 lbs. per ft. with malleable iron and pressed steel extension arms. Posts are set 3' in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

Inset:—Style 3TH with Open Section Line Post and Top Rail.

EXTENSION ARMS. On open section framework, line post arms are an integral part of the posts at a 45° angle. On pipe framework, arms are pressed steel attached to malleable post top at 45° angle. Posts may be set with arms either to the inside or outside of property or vertical. See pages 32, 34 and 35.

★ Wherever "Galvanized After Woven" is mentioned in Fabric and Barbed Wire specifications for Stewart Chain Link Wire Fences and Gates, BETHANIZED Wire is also obtainable. See page 9.

TENSION BARS. Furnished on pipe framework only as special method of weaving spiral into open section posts makes tension bars, bands and bolts unnecessary.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

BRACING. On open section framework for fence 6' high and higher, stiff leg brace 134" Oval-Back I-Beam. 2.43 lbs. per ft. with 3%" round adjustable truss rod on all heights. On pipe framework for fence 6' high and higher, horizontal brace 15%" O. D. pipe. 2.27 lbs. per ft. with 3%" round adjustable truss rod on all heights. One brace assembly for end and gate posts; two brace assemblies for corner and pull posts.

GATES. Framework 2" O. D. pipe. 2.72 lbs. per ft. Assembled with pressed steel fittings. Rust resisting fabric fasteners used throughout. Gates securely braced and trussed. Guaranteed sag-proof. Furnished in any width desired. See illustrations pages 36, 37, 38 and 39.

HINGES AND LATCHES. Hinges for open section framework are heavy malleable iron and for pipe framework are pressed steel. Off-set hinges are available when desired. See page 36. Latches are pressed steel or malleable iron and work easily under all conditions. Latches equipped with padlock arrangement and gate may be locked from either side.

GATE POSTS. See illustrations pages 33 and 35.

3" I-Beam (6 lbs. per ft.) or 3" O. D. Pipe (5.79 lbs. per ft.) Set 3' in concrete 12" dia. footings

For single gates up to and including 6' wide and for double gates up to and including 12' wide. On single gates requiring hinge posts larger than 3" the latch posts may be 3".

4" H-Beam (14.5 lbs. per ft.) or 4" O. D. Pipe (9.10 lbs. per ft.) Set 3' in concrete 15" dia, footings

For over 6' single up to and including 13' single; for over 12' double up to and including 26' double.

6" H-Beam (21 lbs. per ft.) or 65%" O. D. Pipe (18.97 lbs. per ft.) Set 3'6" in concrete 18" dia. footings

For over 13' single up to and including 18' single; for over 26' double up to and including 36' double.

8" H-Beam (32.5 lbs. per ft.) or 85%" O. D. Pipe (24.6 lbs. per ft.) Set 4' in concrete 20" dia. footings For single gate over 18' or double gates over 36'.

4" H-Beam (14.5 lbs. per ft.) or 4" O. D. Pipe (9.10 lbs. per ft.) Set 3' in concrete 15" dia. footings For sliding gates up to 30'.

BARBED WIRE. 3 strands No. 12 gauge double strand galva ized copper-bearing steel wire with No. 14 gauge barbs spaced 4" apart.

COILED WIRE. When top rail is omitted we use a No. 6 gauge coiled wire in lieu thereof. Fastened to fabric with galvanized steel clips.

FENCE STYLE 3TM - Medium Weight Construction

Standard Heights 6' over all or lower if desired. Fabric is 1' less than over all height of fence.

FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

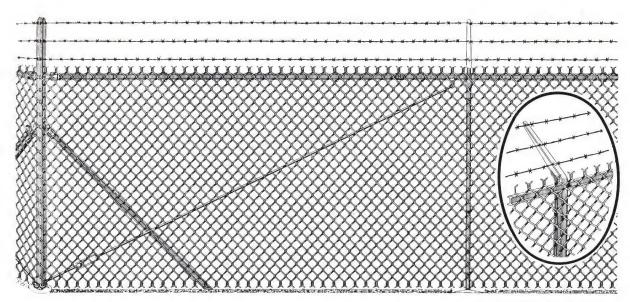
FRAMEWORK (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength and corrosion resistance.

LINE POSTS. 1¾" Oval-Back I-Beam. 2.43 lbs. per ft. with integral tapered barbed wire extension arms or 2" O. D. pipe. 2.72 lbs. per ft. with malleable iron and pressed steel extension arms. Posts are set 2'6" in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

TOP RAIL. 134" Oval-Back I-Beam. 2.43 lbs. per ft. or 158" O. D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof.

TERMINAL POSTS. End, corner and pull posts 2½" Oval-Back I-Beam. 4.45 lbs. per ft. or 2½" O. D. pipe. 3.65 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.

POST TOPS. Terminal and gate posts are vertical, full height of fence with standard sheared finish or ornamental tops. Terminal post extension arm may be at 45° angle if desired. See pages 32, 34 and 35.



Inset:—Style 3TM with Open Section Line Post and Top Rail.

EXTENSION ARMS. On open section framework, line post arms are an integral part of the post at a 45° angle. On pipe framework, arms are pressed steel attached to malleable post top at a 45° angle. Posts may be set with arms either to the outside or inside of posts or vertical. See pages 32, 34 and 35.

TENSION BARS. Furnished on pipe framework only as special method of weaving spiral into open section posts makes tension bars, bands and bolts unnecessary.

BRACING. On open section framework for fence 6' high, stiff leg brace $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod on all heights. On pipe framework for fence 6' high, horizontal brace $1\frac{5}{8}$ " O. D. pipe. 2.27 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod on all heights. One brace assembly for end and gate posts; two brace assemblies for corner and pull posts.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

GATES. Framework 15%" O. D. pipe. 2.27 lbs. per ft. Assembled with pressed steel fittings. Rust resisting fabric fasteners used throughout. Gates securely braced and trussed. Guaranteed sag-proof. Medium Weight gates are furnished up to and including 24' double. See illustrations, pages 36, 37, 38 and 39.

HINGES AND LATCHES. Hinges for open section framework are heavy malleable iron and for pipe framework are pressed steel. Latches are pressed steel or malleable iron and work easily under all conditions. Latches equipped with padlock arrangement and gate may be locked from either side.

GATE POSTS. See illustrations pages 33 and 35. $2\frac{1}{4}$ " Oval-Back I-Beam (4.45 lbs. per ft.) or $2\frac{1}{2}$ " O. D. Pipe (3.65 lbs. per ft.)

Set 3' in concrete 12" dia. footings

Up to and including 4' single and 8' double. On single gates requiring hinge posts larger than $2\frac{1}{4}$ " or $2\frac{1}{2}$ " the latch posts may be of this size.

3" I-Beam (6 lbs. per ft.) or

3" O. D. Pipe (5.79 lbs. per ft.)

Set 3' in concrete 12" dia. footings
For over 4' single up to and including 8' single; for over 8' double up to and including 16' double.

4" H-Beam (14.5 lbs. per ft.) or

4" O. D. Pipe (9.10 lbs. per ft.)

Set 3' in concrete 15" dia. footings

For over 8' single up to and including 12' single; for over 16' double up to and including 24' double.

4" H-Beam (14.5 lbs. per ft.) or

4" O. D. Pipe (9.10 lbs. per ft.)

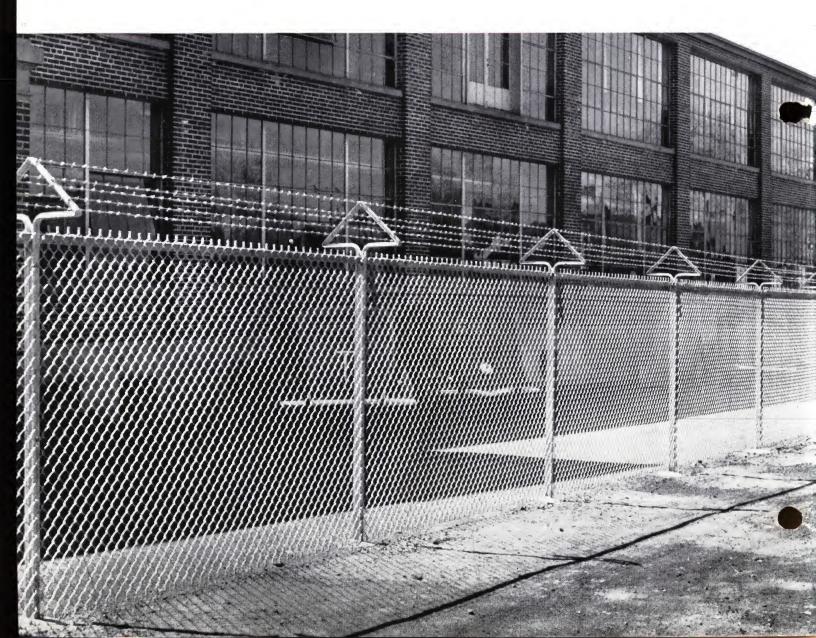
Set 3' in concrete 15" dia. footings For sliding gates up to 30'.

BARBED WIRE. 3 strands No. 12 gauge double strand galvanized copper-bearing steel wire with No. 14 gauge barbs spaced 4" apart.

COILED WIRE. When top rail is omitted we use a No. 6 gauge coiled wire in lieu thereof. Fastened to fabric with galvanized steel clips.



This Stewart Fence, style 5TH, assures two-way protection, safeguarding against hasty exists as well as unauthorized entrance. Below, a Stewart 5TH Chain Link Wire Fence protects the plant of the Springfield Shopping News, Springfield, Massachusetts.





FENCE STYLE 5TH - Heavy Weight Construction

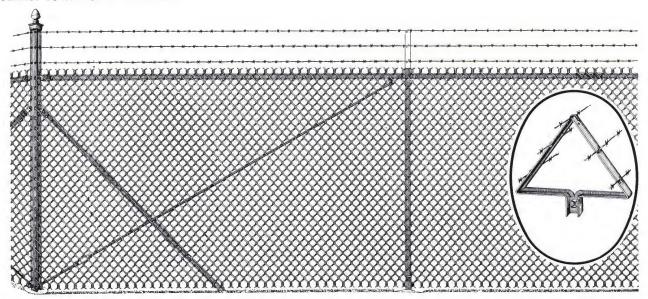
Standard Heights 7' and 8' over all. Built in heights from 7' to 12' inclusive. Fabric is 1' less than over all height of fence.

FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

FRAMEWORK. (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength, weight and corrosion resistance. With open section framework the line post and extension arm being one continuous section, makes for a stronger unit than a separate arm and cannot be broken or lifted off.

LINE POSTS. 2½" Oval-Back I-Beam. 4.45 lbs. per ft. with integral barbed wire extension arms or 2½" O. D. pipe. 3.65 lbs. per ft. with malleable iron and pressed steel extension arms. Posts are set 3' in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

TOP RAIL. $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. or $1\frac{5}{8}$ " O. D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof. Fence 12' high and over furnished with middle rail corresponding in size and weight with top rail.



Inset:—Style 5TH with integral Open Section Line Post.

TERMINAL POSTS. End, corner and pull posts 3" I-Beam. 6 lbs. per ft. or 3" O. D. pipe. 5.79 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.

POST TOPS. Terminal and gate posts are vertical, full height of fence with standard sheared finish or ornamental tops. See pages 32, 34 and 35.

NOTE—With the exception of the Extension Arm which in 5TH accommodates five strands of barbed wire, all specifications for Fence Style 5TH, Heavyweight Construction, are exactly the same as Fence Style 3TH, Heavyweight Construction, shown on pages 3 and 4 of this catalog.



Stewart 5TH Chain Link Wire Fence surrounds the Filstrip Athletic Field, Benton Harbor, Michigan. On game days a canvas may be stretched over the fence framework to assure paid admissions and increase revenue.





RUST-DEFYING

BETHANIZED WIRE

Now Available for All Types of Stewart Fence Fabric and Barbed Wire

You can always count on extra-long service life from Stewart Fence Fabric and Barbed Wire made from **BETHANIZED** wire*. With its tightly-bonded electrolytic coating of 99.9 per cent pure zinc, **BETHANIZED** wire puts up a continual battle against corrosion.

The **BETHANIZED** coating is applied by an advanced electrolytic process which is a clean-cut departure from older methods of coating steel wire with zinc. This new process results in a zinc coating that is superior in every respect to conventional galvanized coatings.

The **BETHANIZED** zinc coating is *locked* to the steel base wire, atom by atom. The coating is pure zinc all the way through, and uniform not only along, but around the entire circumference of the wire. Rust can't get a start because there are no thin spots anywhere in the coating.

Here's another important advantage of the **BETHANIZED** coating—its ductility. **BETHANIZED** wire can be formed into fence or barbed wire without any loss of rust-resistance due to damage to the coating. The zinc adheres so tightly to the steel that the two metals practically become one. So ductile is the **BETHANIZED** coating that it can withstand any forming operation the wire itself can stand, without peeling or flaking.

BETHANIZED wire is a premium product if there ever was one. Naturally it costs a little more than wire zinc-coated by older methods. But it's worth the difference, for in the long run BETHANIZED wire will prove its superiority and economy. With its tight, uniform, corrosion-defying coating of pure zinc, BETHANIZED wire will remain neat-looking and serviceable year after year.

Remember this—for corrosion-resistance and long service life, the **BETHANIZED** coating can outperform any other type of zinc coating. That's why we say that it's well worth while to have your Stewart Fence Fabric and Barbed Wire made from rust-resisting **BETHANIZED** wire. Your inquiry will receive prompt attention.

^{*} Product of Bethlehem Steel Company.

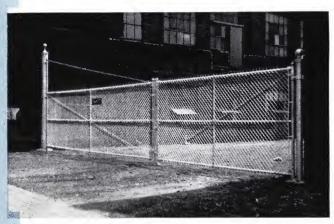
Typical Stewart Chain Link Wire



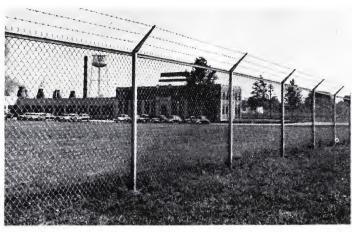
 Notice how this Stewart 3TH Chain Link Wire Fence follows uneven ground lines.



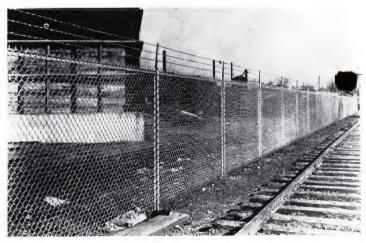
 The Bavarian Brewery, Covington, Kentucky, is protected by this Stewart Non-Climbable Fence



 Stewart Chain Link Wire Gate. 32' wide, at the Sunlight Electric Co., Warren, Ohio.



• The Macklin Company, Jackson, Michigan. This fence is a Stewart style 3TH, heavyweight type.



• This Stewart 3TH Chain Link Wire Fence has vertical extension arms for barbed wire.



Stewart Chain Link Wire Fence installations shown on these pages are typical of those guarding all types property in every section of the country. A Stewart Fence may be depended on to give many years of low-cost, trouble-free service.

Lence and Gate Installations



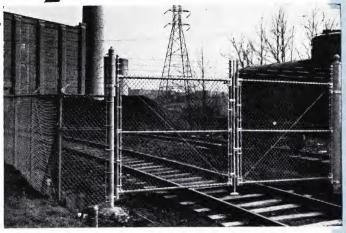
• This type of fence is ideal for protecting the remote property lines of large estates.



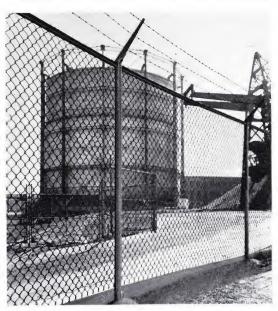
 Stewart 3TH Fence guards the pool at the Portland Outhwaite Recreational Center, Cleveland, Ohio.



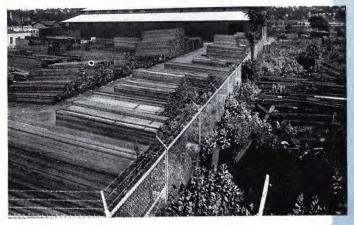
 Low concrete wall shown in the foreground necessitated unusual installation at this Cincinnati plant.



 Stewart Bethanized Chain Link Wire Gate at railway entrance of Hilton-Davis Chemical plant, Cincinnati.



 Utilities all over the country depend on Stewart Fences for the utmost in property protection.



Stewart Fences make outdoor storage areas safe.
 Crannel Lumber Company, Albany, N. Y.



This Stewart Fence is known as style OTH, and is ideal where a lesser degree of protection is required than afforded by style 3TH with barbed wire overhang. It is the same construction as Stewart style 3TH except that it has no arrangement for barbed wire.





FENCE STYLE OTH – Heavy Weight Construction

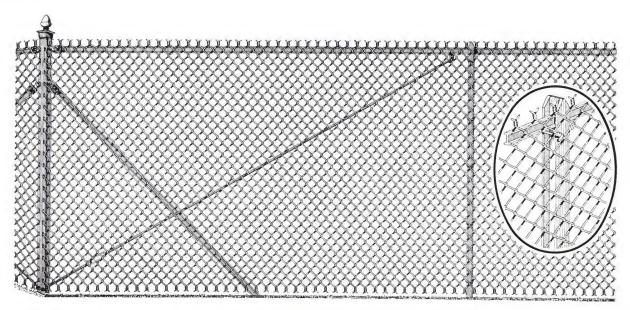
Standard Heights 6' and 7'. Built in heights from 5' to 12' inclusive.

FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

FRAMEWORK. (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength, weight and corrosion resistance.

TOP RAIL. 1¾/11 Oval-Back I-Beam. 2.43 lbs. per ft. or 1½/81 O. D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof. Fence 12' high and over furnished with middle rail corresponding in size and weight with top rail.

TERMINAL POSTS. End, corner and pull posts 3" I-Beam. 6 lbs. per ft. or 3" O. D. pipe. 5.79 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.



Inset:—Style 0TH with Open Section Line Post and Top Rail.

LINE POSTS. $2\frac{1}{4}$ " Oval-Back I-Beam. 4.45 lbs. per ft. or $2\frac{1}{2}$ " O. D. pipe. 3.65 lbs. per ft. Posts are set 3' in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

POST TOPS. On open section framework, standard sheared finish for line and terminal posts is recommended. Ornamental tops are available. See page 32. On pipe framework, malleable iron tops are furnished. See page 35.



This Stewart Fence protects a play-ground in Norwood, Ohio. Notice the sturdy construction of the all-beam framework. A Stewart style OTH Fence will give many years of service with maintenance expense negligible.





FENCE STYLE OTH - Continued

Standard Heights 6' and 7'. Built in heights from 5' to 12' inclusive.

TENSION BARS. Furnished on pipe framework only as special method of weaving spiral into open section posts makes tension bars, bands and bolts unnecessary.

BRACING. On open section framework for fence 6' high and higher, stiff leg brace $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod on all heights. On pipe framework for fence 6' high and higher, horizontal brace $1\frac{5}{8}$ " O. D. pipe. 2.27 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod on all heights. One brace assembly for end and gate posts; two brace assemblies for corner and pull posts.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

GATES. Framework 2" O. D. pipe. 2.72 lbs. per ft. Assembled with pressed steel fittings. Rust resisting fabric fasteners used throughout. Gates securely braced and trussed. Guaranteed sag-proof. Furnished in any width desired. See illustrations pages 36, 37 and 38.

HINGES AND LATCHES. Hinges for open section framework are heavy malleable iron and for pipe framework are pressed steel. Off-set hinges are available when desired. See page 36. Latches are pressed steel or malleable iron and work easily under all conditions. Latches equipped with padlock arrangement and gate may be locked from either side

GATE POSTS. See illustrations pages 33 and 35.

3" I-Beam (6 lbs. per ft.) or

3" O. D. Pipe (5.79 lbs. per ft.)

Set 3' in concrete 12" dia. footings

For single gates up to and including 6' wide and for double gates up to and including 12' wide. On single gates requiring hinge posts larger than 3", the latch posts may be 3".

4" H-Beam (14.5 lbs. per ft.) or

4" O. D. Pipe (9.10 lbs. per ft.)

Set 3' in concrete 15" dia. footings

For over 6' single up to and including 13' single; for over 12' double up to and including 26' double.

6" H-Beam (21 lbs. per ft.) or

65/8" O. D. Pipe (18.97 lbs. per ft.)

Set 3'6" in concrete 18" dia. footings

For over 13' single up to and including 18' single; for over 26' double up to and including 36' double.

8" H-Beam (32.5 lbs. per ft.) **or** 85%" O. D. Pipe (24.6 lbs. per ft.)

Set 4' in concrete 20" dia. footings

For single gate over 18' or double gates over 36'.

4" H-Beam (14.5 lbs. per ft.) or 4" O. D. Pipe (9.10 lbs. per ft.)

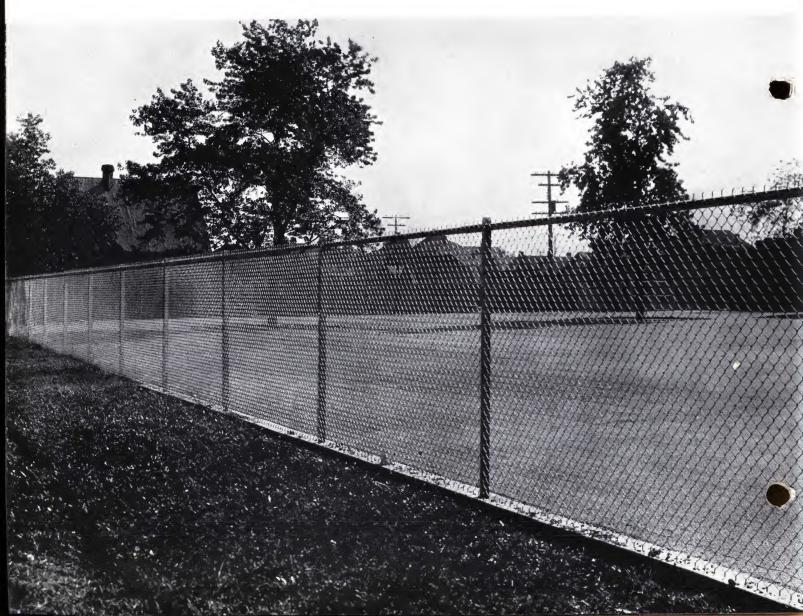
Set 3' in concrete 15" dia. footings For sliding gates up to 30'.

ILED WIRE. When top rail is omit

COILED WIRE. When top rail is omitted we use a No. 6 gauge coiled wire in lieu thereof. Fastened to fabric with galvanized steel clips.



Another OTH Chain Link Wire Fence installation by Stewart. The heavy-weight construction of style OTH makes it desirable for parks, playgrounds, zoos and other classes of property where fences are subject to hard usage.





FENCE STYLE OTM - Medium Weight Construction

Standard Heights 4', 5' and 6' - or lower if desired

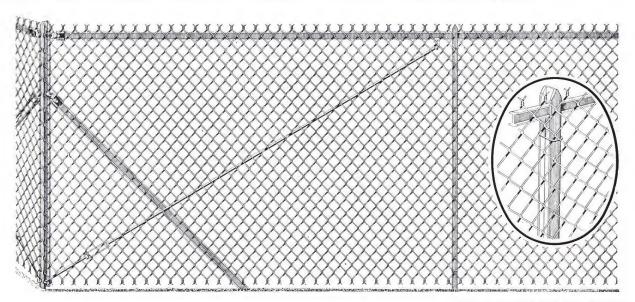
FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at top and bottom except in height 4' or lower which is finished with twist and barbed at bottom and knuckled at top. Fabric may be reversed if desired. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

FRAMEWORK (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength and corrosion resistance.

TOP RAIL. $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. or $1\frac{5}{8}$ " O. D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled spring wire is used in lieu thereof.

TERMINAL POSTS. End, corner and pull posts $2\frac{1}{4}$ " Oval-Back I-Beam. 4.45 lbs. per ft. or $2\frac{1}{2}$ " O. D. pipe. 3.65 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts.

POST TOPS. On open section framework, standard sheared finish for line and terminal posts is recommended. Ornamental tops are available. See page 32. On pipe framework, malleable iron tops are furnished. See illustrations, page 35.



Inset:—Style 0TM with Open Section Line Post and Top Rail.

LINE POSTS. 1¾" Oval-Back I-Beam. 2.43 lbs. per ft. or 2" O. D. pipe. 2.72 lbs. per ft. Posts are set 2' 6" in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

TENSION BARS. Furnished on pipe framework only as special method of weaving spiral into open section posts makes tension bars, bands and bolts unnecessary.



Adequate fencing is a must for airport property, and Stewart Chain Link Wire Fences meet every requirement. A Stewart Fence keeps the public at a safe distance; prevents accidents and damage to property.





FENCE STYLE OTM-Continued

Standard Heights 4', 5' and 6' - or lower if desired

BRACING. On open section framework for fence 6' high, stiff leg brace 134" Oval-Back I-Beam. 2.43 lbs. per ft. with 38" round adjustable truss rod on all heights. On pipe framework for fence 6' high, horizontal brace 158" O D. pipe. 2.27 lbs. per ft. with 38" round adjustable truss rod on all heights. One brace assembly for end and gate posts, two brace assemblies for corner and pull posts.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

GATES. Framework 15%" O. D. pipe. 2.27 lbs. per ft. Assembled with pressed steel fittings. Rust resisting fabric fasteners used throughout. Gates securely braced and trussed. Guaranteed sag-proof. Medium Weight Gates are furnished up to and including 24' double. See illustrations, pages 36, 37 and 38.

HINGES AND LATCHES. Hinges for open section framework are heavy malleable iron and for pipe framework are pressed steel. Latches are pressed steel or malleable iron and work easily under all conditions. Latches equipped with padlock arrangement and gate may be locked from either side.

GATE POSTS. See illustrations pages 33 and 35. 2½" Oval-Back I-Beam (4.45 lbs. per ft.) or 2½" O. D. Pipe (3.65 lbs. per ft.) Set 3' in concrete 12" dia. footings

Up to and including 4' single and 8' double. On single gates requiring hinge posts larger than $2\frac{1}{4}$ " or $2\frac{1}{2}$ " the latch posts may be of this size.

3" I-Beam (6 lbs. per ft.) or 3" O. D. Pipe (5.79 lbs. per ft.) Set 3' in concrete 12" dia. footings

For over 4' single up to and including 8' single; for over 8' double up to and including 16' double.

4" H-Beam (14.5 lbs. per ft.) or 4" O. D. Pipe (9.10 lbs. per ft.) Set 3' in concrete 15" dia. footings

For over 8' single up to and including 12' single; for over 16' double up to and including 24' double.

4" H-Beam (14.5 lbs. per ft.) or 4" O. D. Pipe (9.10 lbs. per ft.) Set 3' in concrete 15" dia. footings For sliding gates up to 30'

COILED WIRE. When top rail is omitted we use a No. 6 gauge coiled wire in lieu thereof. Fastened to fabric with galvanized steel clips.



The protection of school property is of paramount importance. Here a Stewart OTH Chain Link Wire Fence guards the side property line, while across the front a Stewart Iron Picket Fence has been erected.





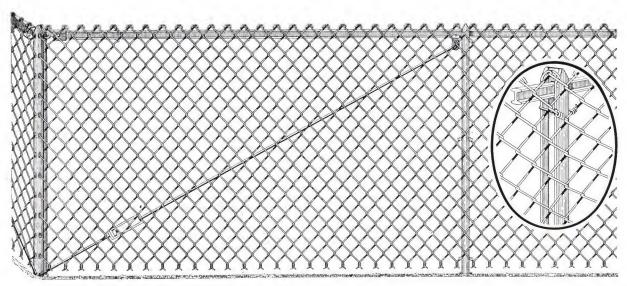
"HARMONY" AND "LIGHT DIVISION" FENCE

Furnished in 3', 3'6" and 4' Heights

FABRIC (Galvanized AFTER Woven.) "Harmony" Fence. Chain Link Copper-Bearing Steel No. 11 or No. 9 gauge, woven in a 2" mesh with twist and barbed finish at bottom and knuckled finish at top. Fabric may be reversed if desired. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch. "Light Division" Fence. Furnished with No. 11 gauge only. Above specifications apply.

LINE POSTS. "Harmony" Fence. $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. or 2" O. D. pipe 2.72 lbs. per ft. Posts are set 2' in concrete footings not more than 10' apart on centers.

"Light Division" Fence. 13%" Oval-Back I-Beam. 1.86 lbs. per ft. Posts are set 2' in ground or concrete footings not more than 10' apart on centers. Posts for driving are equipped with reinforcing flange plate below grade line.



Inset:—Open Section Line Post and Top Rail.

FRAMEWORK (Copper-Bearing Steel.) "Harmony" Fence. Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength and corrosion resistance.

"Light Division" Fence. Open section galvanized beams.

TOP RAIL "Harmony" Fence. 13/8" Oval-Back I-Beam. 1.86 lbs. per ft. or 13/8" O. D. pipe. 1.68 lbs. per ft. Rails joined with expansion sleeve couplings. "Light Division" Fence. 13/8" Oval-Back I-Beam. 1.86 lbs. per ft. Rails joined with expansion sleeve couplings.

If top rail is omitted a No. 6 coiled wire is used in lieu thereof.



Swimming pools, reservoirs and water works property need adequate protection. The illustration shows a Stewart OTH Chain Link Wire Fence installation at Maysville, Kentucky. Notice how the fence follows the property level at the far end of the pool.





"HARMONY" AND "LIGHT DIVISION" FENCE Continued

Furnished in 3', 3'6" and 4' Heights

TERMINAL POSTS. End, corner and gate posts (see pages 33 and 35.) "Harmony" Fence. 21/4" Oval-Back I-Beam. 4.45 lbs. per ft. or 21/2" O. D. pipe. 3.65 lbs. per ft. Set 2'6" in concrete footings and trussed with 3/8" round adjustable truss rod.

"Light Division" Fence. $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. Set 2' in concrete footings and trussed with $\frac{3}{8}$ " round adjustable truss rod.

POST TOPS. "Harmony" and "Light Division" Fence with open section framework, post tops are neatly sheared. "Harmony" Fence with pipe framework is furnished with ornamental tops.

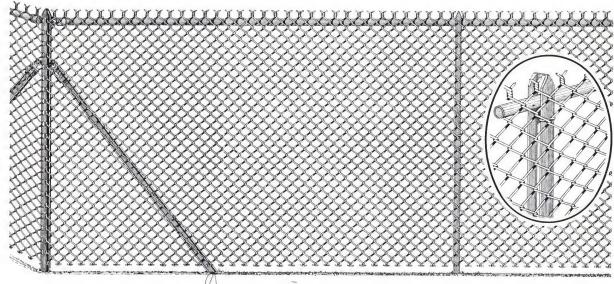
TENSION BARS. Furnished on Pipe framework only as special method of weaving spiral into Open Section posts makes tension bars, bands and bolts unnecessary.

RUST RESISTING FABRIC TIES. No. 9 gauge round for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

GATES. "Harmony" Fence. With open section framework, welded frame of $1\frac{3}{8}$ " Oval-Back I-Beam vertical members and $1\frac{1}{8}$ " O. D. pipe horizontal members. With pipe framework, $1\frac{3}{8}$ " O. D. pipe frame assembled with pressed steel fittings. Guaranteed sag-proof. Furnished up to and including 12' double gate. See page 38.

"Light Division" Fence. Welded frame of $1\frac{3}{8}$ " Oval-Back I-Beam vertical members and $1\frac{1}{8}$ " O. D. pipe horizontal members. Guaranteed sag-proof. Furnished up to and including 12' double gate.

HINGES AND LATCHES. Pressed steel or malleable iron. Latches for single gates are spring type, for double gates are equipped with padlock arrangement.



Inset:—Open Section Line Post and Pipe Top Rail.

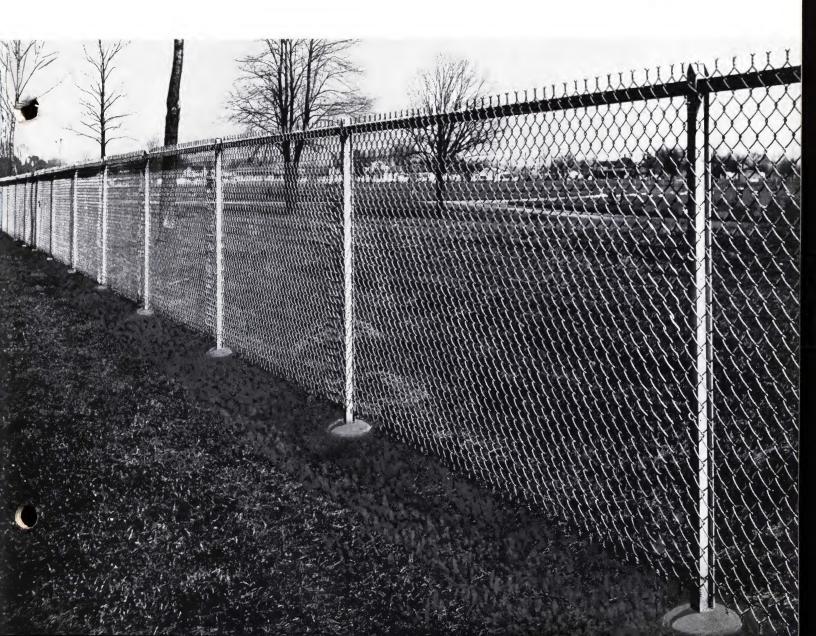


In scores of installations all over the country, Stewart Fences have proved their dependability in the electrical field by protecting valuable property and equipment. The transformers below are protected by a Stewart OTH Chain Link Wire Fence.



Stewart Chain Link Wire Fences are used extensively for cemetery installations, especially for protecting the side and rear property lines. Frequently a Stewart Iron Fence is erected across the front, adding beauty to the installation.

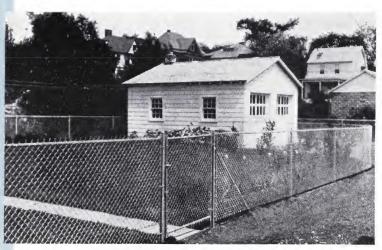




 Stewart style OTH Fence keeps play within safe areas at the Roessleville School, Albany, N. Y.



 Toledo, Ohio residence. Stewart OTM Fence protects trees, shrubs, flowers and lawns.



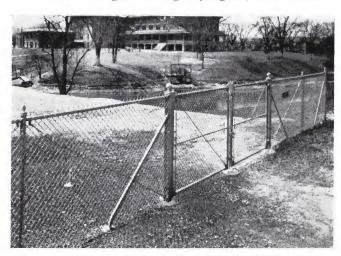
 Albany, N. Y. Stewart style OTM Chain Link Wire Fence assures protection against trespassing.

Typical OTH and OTM Chain

These installations show a wide variety of uses for Stewart OTH and OTM styles of Chain Link Wire Fence and Gates. In every instance, the fence has been adapted to the property and the degree of protection required. Stewart Fence engineers will be glad to suggest the right fence for your property.



 Stewart OTM Chain Link Wire Fence and Entrance Gates surround the Magazine Triangle, Springfield, Massachusetts.



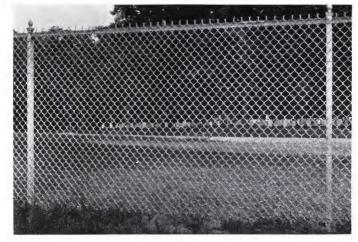
Stewart Fences command respect for institutional property lines.
 Kenton County Infirmary, Covington, Kentucky.

Link Wire Fence Installations



 This Stewart OTM Chain Link Wire Fence effectively separates residential property from railway right of way.

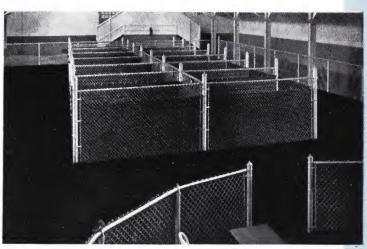




Breeding Farms require more than ordinary protection. A Stewart
Fence was selected because it met all requirements.



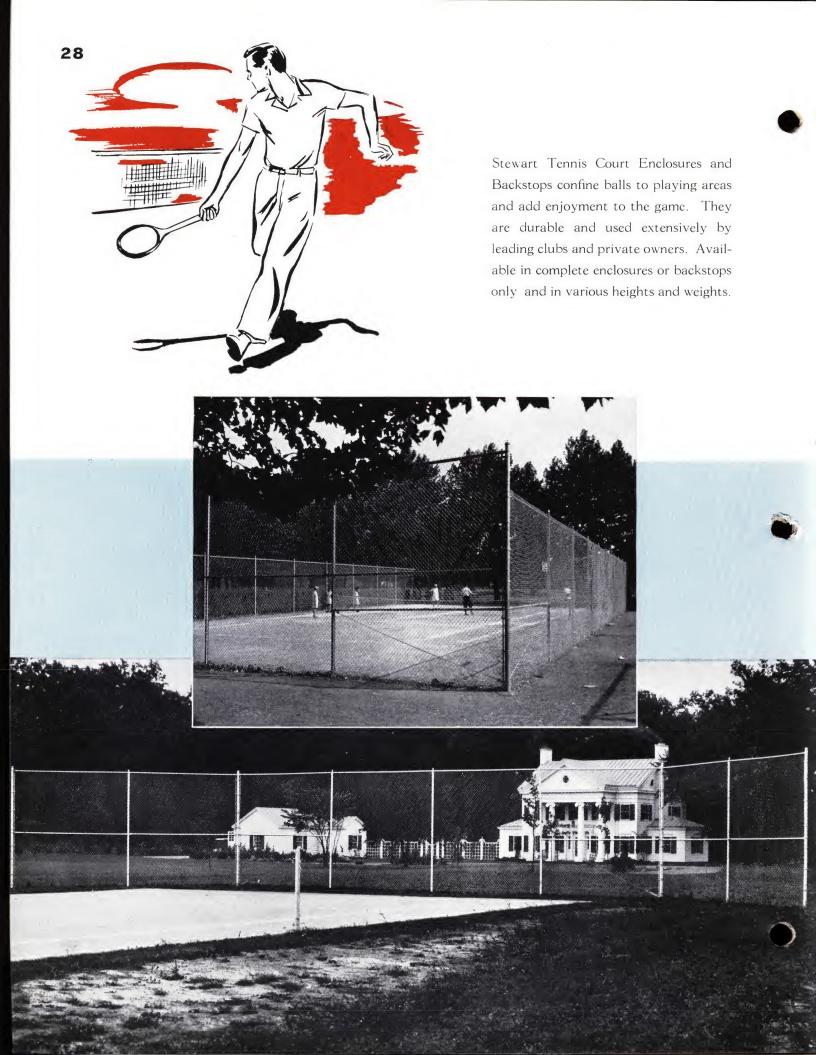
 A Stewart OTM Fence protects this Indianapolis residence against thoughtless trespass and stray animals, yet it does not offend.



 New Orleans, La. Fair Grounds Race Track Paddock. The fence is a Stewart Chain Link Wire, style OTM. An unusual installation.



 No questions arise about boundry lines when definitely marked by a neighborly fence such as this Stewart style OTM.



TENNIS COURT FENCE-Complete Enclosures or Backstops

Available in Two specifications as "Heavy Weight" or "Medium Weight". "Heavy Weight" is furnished in 8', 10' and 12' heights. "Medium Weight" is furnished in 8' and 10' heights only.

FABRIC (Galvanized AFTER Woven), "Heavy-Weight." Chain Link Copper-Bearing Steel No. 9 gauge, woven in a 2" mesh or No. 11 gauge, woven in a 1¾" mesh with twist and barbed finish at bottom and knuckled finish at top. Copper content .20% by ladle analysis. Zinc coating by hot-dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch. "Medium Weight." No. 11 gauge, woven in a 1¾" mesh only.

FRAMEWORK (Copper-Bearing Steel). Standard for "Heavy-Weight" and "Medium-Weight" is open section galvanized beams; alternate is galvanized pipe. Open Section framework recommended because of greater strength, weight and corrosion resistance.

LINE POSTS. "Heavy Weight." $2\frac{1}{4}$ " Oval-Back I-Beams. 4.45 lbs. per ft. or $2\frac{1}{2}$ " O. D. pipe. 3.65 lbs. per ft. Posts are set 3' in concrete (10" diameter) footings. Concrete extends 4" below posts. Posts are spaced not more than 10' apart on centers.

"Medium Weight." 1¾" Oval-Back I-Beams. 2.43 lbs. per ft. or 2" O. D. pipe. 2.72 lbs. per ft.

TOP RAIL. "Heavy Weight." 1¾" Oval-Back I-Beam. 2.43 lbs. per ft. or 15%" O. D. pipe. 2.27 lbs. per ft. Rails joined with expansion sleeve couplings. If top rail is omitted a No. 6 coiled wire is used in lieu thereof. Fence 12' high and over furnished with middle rail corresponding in size and weight with top rail.

"Medium Weight". $1\frac{3}{8}$ " Oval-Back I-Beam. 1.86 lbs. per ft. or $1\frac{3}{8}$ " O. D. pipe. 1.68 lbs. per ft. "Medium Weight" NOT furnished without top rail.

TERMINAL POSTS. End, Corner and Gate Posts. "Heavy Weight." 3" I-Beam. 6 lbs. per ft. or 3" O. D. pipe. 5.79 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below the posts.

"Medium Weight." $2\frac{1}{4}$ " Oval-Back I-Beam. 4.45 lbs. per ft. or $2\frac{1}{2}$ " O. D. pipe. 3.65 lbs. per ft.

POST TOPS. Line and terminal posts have ornamental tops. Open section posts with sheared tops may be furnished.

TENSION BARS. Furnished on pipe framework only as special method of weaving into open section posts makes tension bars, bands and bolts unnecessary.

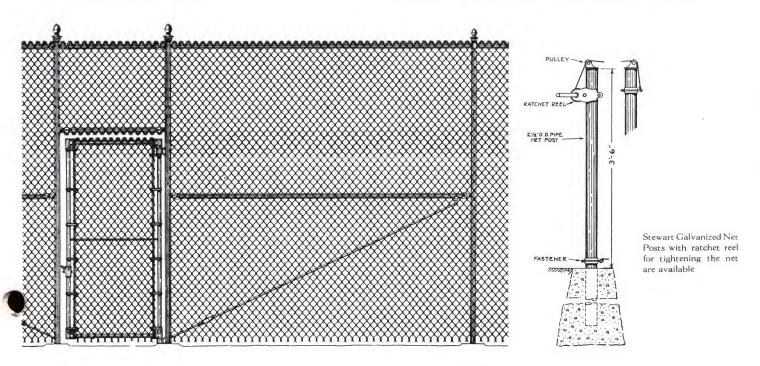
BRACING. "Heavy Weight." Horizontal brace $1\frac{3}{4}$ " Oval-Back I-Beam. 2.43 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod or $1\frac{5}{8}$ " O. D. pipe. 2.27 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod. One brace assembly for end and gate posts; two brace assemblies for corner posts.

"Medium Weight." Horizontal brace. $1\frac{3}{8}$ " Oval-Back I-Beam. 1.86 lbs. per ft or $1\frac{3}{8}$ " O. D. pipe. 1.68 lbs. per ft. with $\frac{3}{8}$ " round adjustable truss rod.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rail.

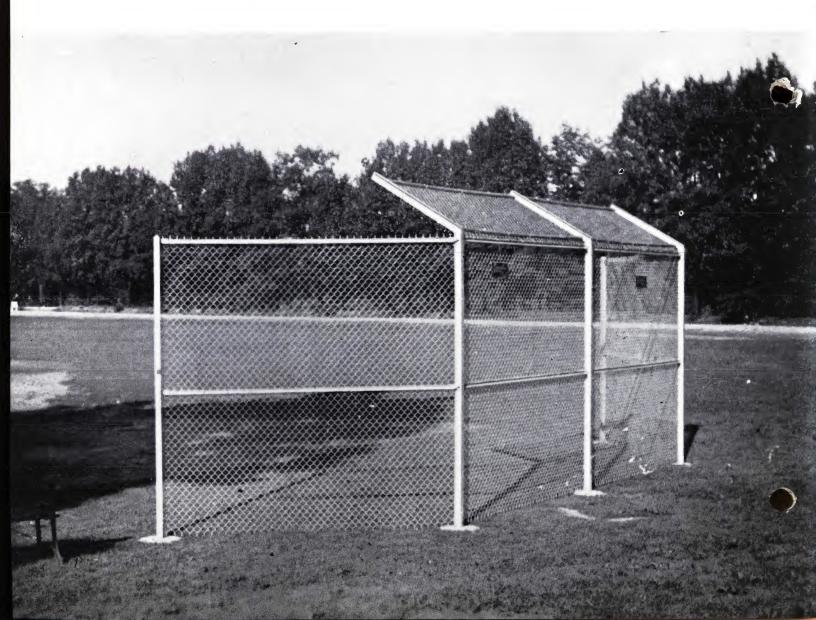
GATES. Framework 15%" O. D. pipe. 2.27 lbs. per ft. Assembled with pressed steel fittings. Rust resisting fabric fasteners used throughout. Gates securely braced. Guaranteed sag-proof. Unless otherwise ordered, gates are furnished for opening 7' high with transom panel above. Furnished up to and including 12' wide double gate.

HINGES AND LATCHES. Hinges and latches are heavy malleable iron or pressed steel. Will operate easily under all conditions. Gates may be locked with padlock from either side.





Stewart Baseball Backstops have two purposes . . . they protect spectators behind the plate, and make it easier for the catcher to retrieve passed balls. The steel framework and heavy chain link wire construction make it a favorite everywhere. Complete specifications are given on the opposite page.



STEWART CHAIN LINK WIRE BASEBALL BACKSTOPS

FABRIC (Galvanized AFTER Woven.) Chain Link Copper-Bearing Steel No. 9 or No. 6 gauge, woven in a 2" mesh with twist and barbed finish at bottom and knuckled finish at top. Copper content .20% by ladle analysis. Zinc coating by hot dip galvanizing process AFTER Woven, approximately 7%. Tensile strength over 70,000 lbs. per square inch.

FRAMEWORK (Copper-Bearing Steel.) Standard is open section galvanized beams; alternate is galvanized pipe. Open section framework recommended because of greater strength, weight and corrosion resistance.

POSTS. 3" I-Beam. 6 lbs. per ft. or 3" O. D. pipe. 5.79 lbs. per ft. Set 3' in concrete (12" diameter) footings that extend 4" below posts. All except end posts are cut, bent and welded making the posts with the overhang arms in one piece.

POST SPACING. Posts are spaced not more than 10' apart on centers.

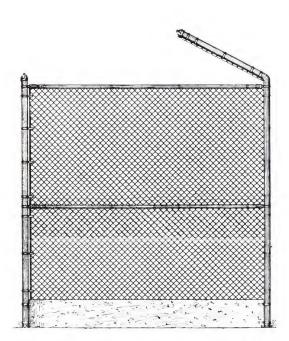
POST TOPS. Open section posts have neatly sheared tops. Pipe posts have ornamental tops.

HORIZONTAL RAILS. 1¾" Oval-Back I-Beam. 2.43 lbs. per ft. or 15%" O. D. pipe. 2.27 lbs. per ft.

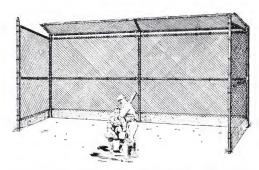
TENSION BARS. Furnished on pipe framework only as special method of weaving spiral into open section posts makes tension bars, bands and bolts unnecessary.

RUST RESISTING FABRIC TIES. Heavy gauge wire for fastening fabric to top rail and line posts. Spaced approximately 14" apart on posts and 24" apart on rails.

BASEBOARD. $2'' \times 10''$ dressed yellow pine to be furnished by purchaser in all cases.

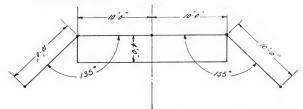


View of baseball backstop showing overhang for deflecting upbounding balls.



Standard specifications given above. In all instances the baseboard $2^{\prime\prime}$ x $10^{\prime\prime}$ dressed yellow pine to be furnished by purchaser.

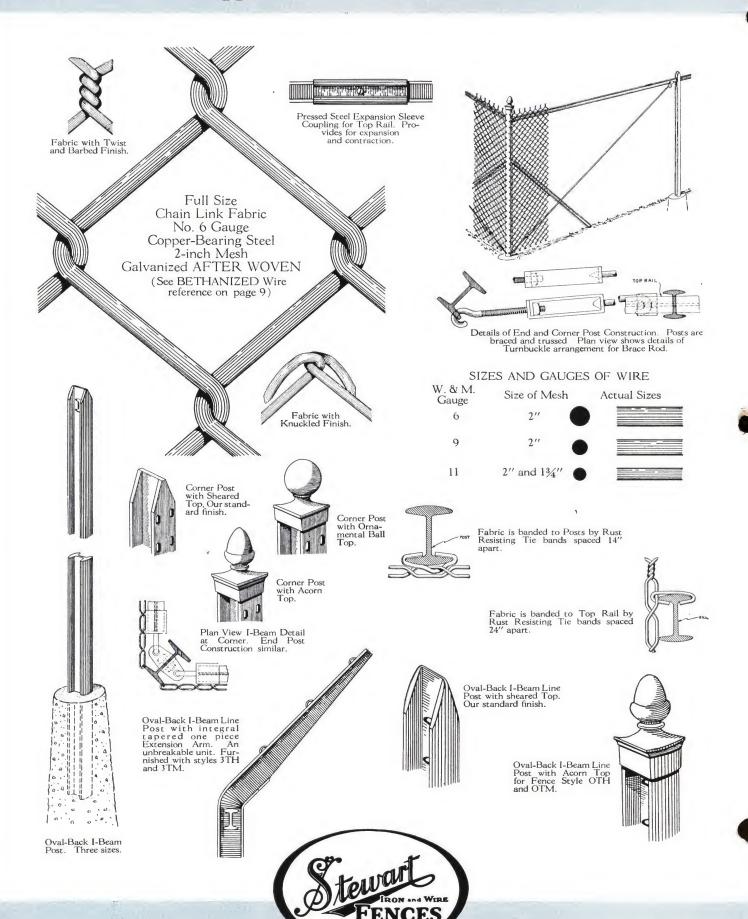
A diagram is not necessary if our standard backstop is satisfactory for your needs. If something special is wanted give overall measurements, measurements of wings, overhang and height of main backstop.



The dimensions are as indicated in the diagram above—20' wide with an added 10' wing set at an angle on either side. Above the 20' center sections is a 4' overhang to deflect upbounding balls back to the catcher.

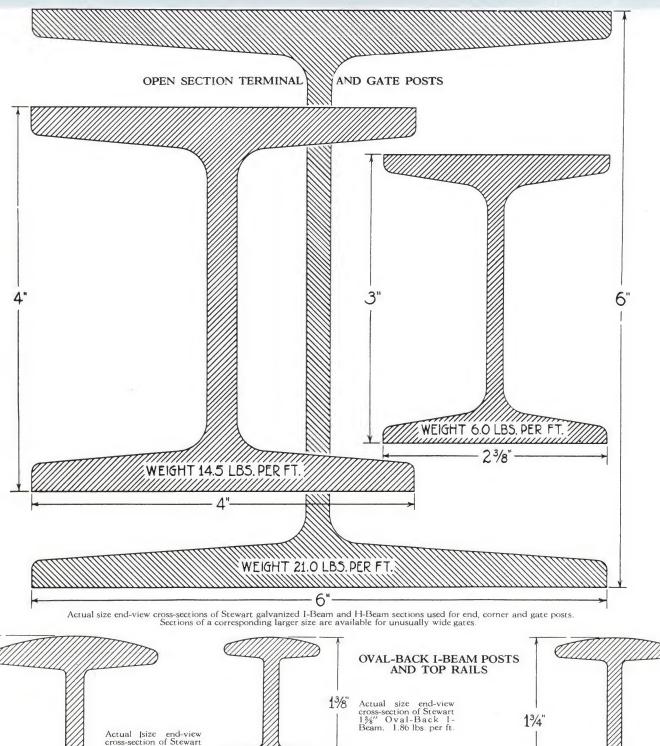
· CONSTRUCTION DETAILS

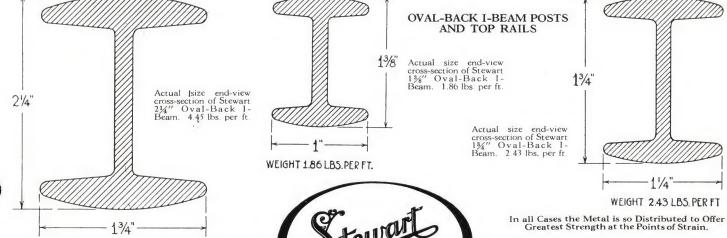
Applicable to Beam Framework



CONSTRUCTION DETAILS

Applicable to Beam Framework

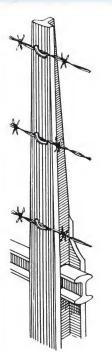




WEIGHT 4.45 LBS. PER FT.

CONSTRUCTION DETAILS

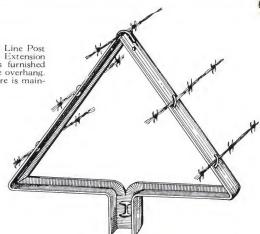
Applicable to Beam Framework



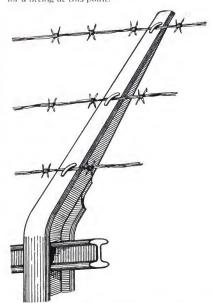
View of Oval-Back I-Beam Line Post with integral, (one piece) Extension Arm as applying to fences furnished with a 5 strand barbed wire overhang. The desirable integral feature is maintained.

MALLEABLE IRON END OR CORNER POST EXTENSION ARM (Open Section Construction)

Barbed wire extension arm set at 45° angle.

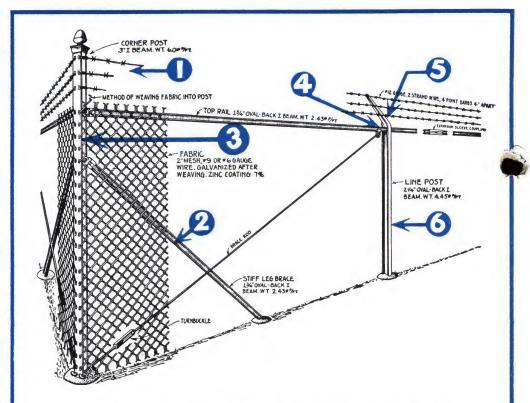


View of Oval-Back I-Beam line post with integral, (one piece) vertical Extension Arm. Obviously stronger than other types of posts requiring malleable iron and pressed steel extension arms so easily removed or broken. Beam top rail passes through web of post thereby completely eliminating need for a fitting at this point.



View of Oval-Back I-Beam Line Post with integral, (one piece) Extension Arm set at a 45° angle. Obviously stronger than other types of posts requiring malleable iron and pressed steel extension arms so easily removed or broken. Note manner of attaching barbed wire. Beam top rail passes through web of post thereby completely eliminating need for a fitting at this point.





EXCLUSIVE STEWART FEATURES

No. 12 gauge double strand galvanized Copper-Bearing steel barbed wire with No. 14 gauge barbs spaced 4" apart. Securely fastened to flange of post thereby affording rigid connection.

Stiff leg bracing as used for fences 6' high and higher. Brace is set into a concrete footing with an auxiliary 3'g" round adjust-ble truss rod.

Chain Link fabric spirals through the slots in terminal posts in "cork screw" fashion. Such construction eliminates need for bands, bolts, tension bars, and other rust points peculiar to other makes.

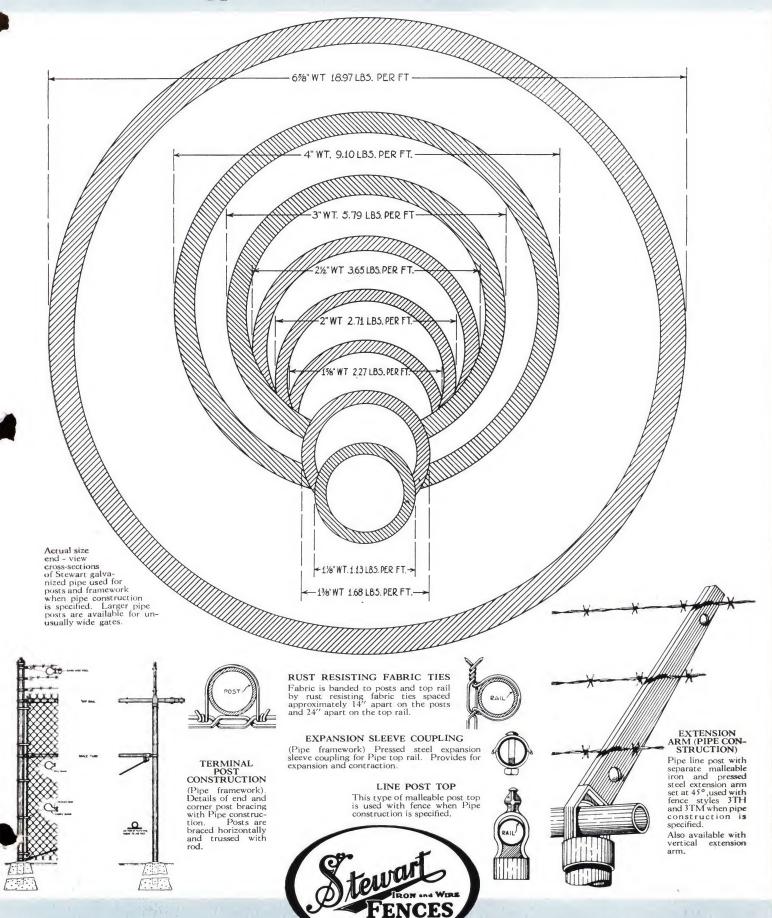
Oval-Back I-Beam top rail passes directly through the intermediate line post and forms a brace the full length of the fence line. Adjustable expansion sleeves are used to connect the sections of top rail.

Oval-Back I-Beam Line Posts with integral (one piece) Extension Arm. Obviously superior to other types of posts requiring malleable iron and pressed steel extension arm so easily removed or broken.

The Stewart Oval-Back I-Beam Line Posts take their shape from rolls owned by this Company. Designed primarily for fence use, the material is so distributed as to be strongest at the greatest points of strain.

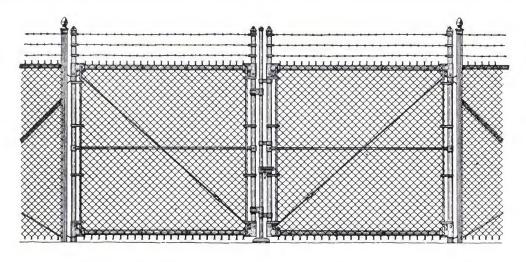
CONSTRUCTION DETAILS

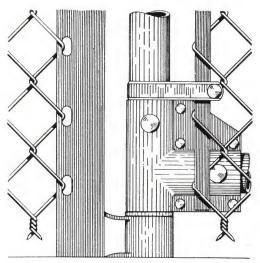
Applicable to Beam Framework



36 · STEWART CHAIN LINK WIRE GATES ·

Completely Galvanized for Maximum Resistance to Rust

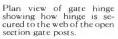


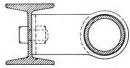


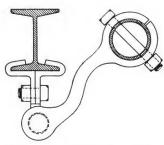
Close up detail of malleable iron gate hinge, sufficiently strong to withstand the strain of swinging gates. Also close up detail of gate frame and pressed steel corner fitting.



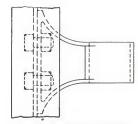
View of gate keeper. Spring arrangement withstands impact of swinging gate.



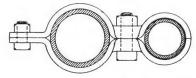




Plan view of malleable offset hinge. Permits gates to open 180".



View of gate hinge showing how hinge is secured to gate posts at two points.



Plan view of pressed steel gate hinge for pipe gate posts.

 Stewart Swing Gates, Single or Double, with or without barbed wire feature are furnished in two specifications.

"HEAVY WEIGHT" SPECIFICATION.

Framework 2" O. D. pipe for fence styles 3TH, OTH and 5TH. Built in any width desired.

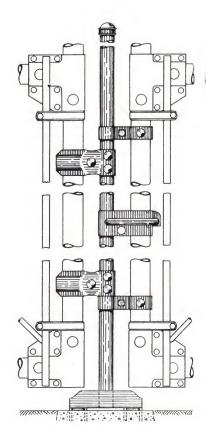
Single Gates—Over 12' wide and double gates over 24' wide carry an overhead truss for additional strength. (See illustration Page 37.)

"MEDIUM WEIGHT" SPECIFICATION.

Framework 15%" O. D. pipe for fence styles 3TM and OTM. Built in widths up to and including 12' single and 24' double.

Extra wide gates for fence styles $3 \, \text{TM}$ and $0 \, \text{TM}$ take heavy weight specifications with overhead truss arrangement.

The height of the gate and the gauge of the fabric filler is governed by the matching fence.

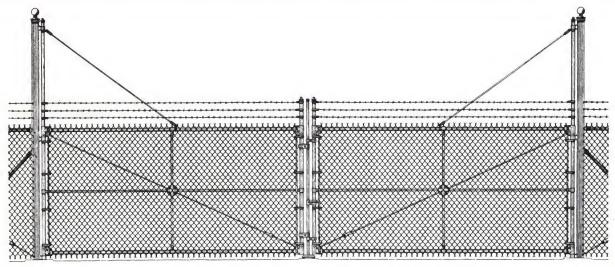


Detail of double gate latch assembly for heavy weight gates. Its construction assures positive action at all times.



- STEWART CHAIN LINK WIRE GATES -

Completely Galvanized for Maximum Resistance to Rust



Stewart Swing Gates for openings over 12' single and over 24' double.

• Stewart swing gates for openings over 12' single and over 24' double are equipped with an overhead truss as shown in the illustration above.

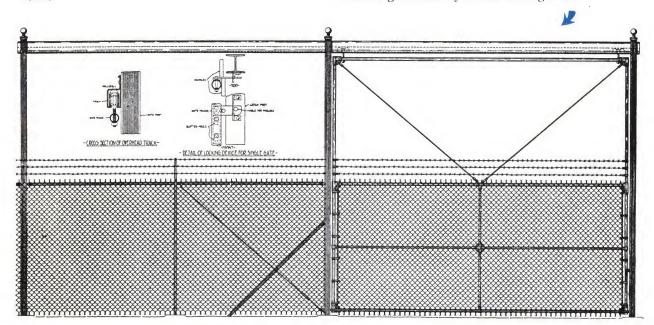
Gates with truss arrangement are furnished in "Heavy Weight" specifications only with $2^{\prime\prime}$ O. D. galvanized pipe framework.

Gates are securely braced and trussed and in each case the height of the gate and the gauge of the fabric filler is governed by the matching fence.

• Stewart Sliding Gates for openings from 4' to 15' single and 8' to 30' double or wider if desired are equipped with a special overhead track, track support and trolley arrangement that makes for easy operation at all times.

Standard clearances are 8', 12' and 22'.

The height of the gate and the gauge of the fabric filler is governed by the matching fence.



Stewart Sliding Gates for openings from 4' to 15' single and 8' to 30' double.



· STEWART CHAIN LINK WIRE GATES

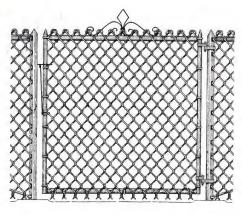
Completely Galvanized for Maximum Resistance to Rust

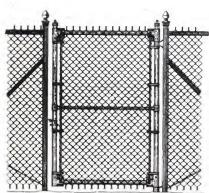
• Stewart Chain Link Gates, with the exception of the "Light Weight" illustrated and described herein, are made of galvanized Copper-Bearing Steel Pipe. The gates are securely braced and fitted together at the corners with heavy pressed steel fittings.

Guaranteed sag-proof.

All Stewart Chain Link Gates are hot-dip galvanized for maximum resistance to rust.

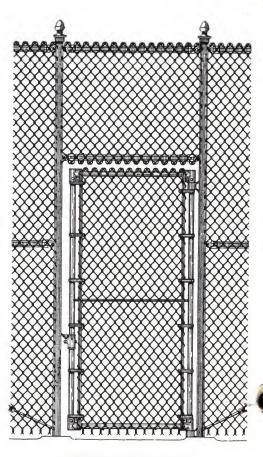
• "LIGHTWEIGHT" Walk Gate—Furnished to match "Harmony" and "Light Division" Fences. With open section framework, welded frame of 13/8" Oval-Back I-Beam vertical members and 11/8" O. D. pipe horizontal members. With pipe framework, 13/8" O. D. pipe frame assembled with pressed steel fittings. Furnished up to and including 12' double gate. Top ornament lends a note of attractiveness.





● Walk Gates. (Furnished with or without barbed wire). Medium Weight furnished with 15%" O. D. pipe framework for fence styles OTM and 3TM Heavy Weight furnished with 2" O. D. pipe framework for fence styles OTH, 3TH and 5TH.

All gates securely braced. Guaranteed sag-proof.



TENNIS COURT GATE (Transom Panel Above)

lacktriangle Tennis Court Gates furnished with 15% O.D. pipe framework braced horizontally. Gate is fitted together at the corners with heavy pressed steel corner fittings.

Unless otherwise ordered, gates are furnished for opening 7' high with transom panel above. Furnished up to and including 12' wide double gate.

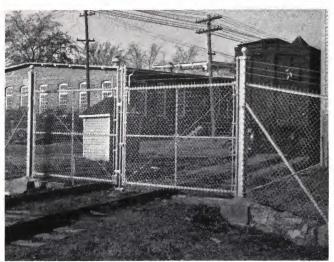


IRON LAWN WALK GATE Design No. 12,000

● An attractive iron gate will add immeasurably to the appearance of an installation. This gate is available in single widths of 3′ 3″, 3′ 7″ and 3′ 11″, double 8′ 6″ and 9′ 10″. Furnished in heights up to and including 48″ high. Pickets ½″ square. Ornamented with rings and malleable iron tops. Furnished galvanized or painted black,



A Gate Style for Every Purpose



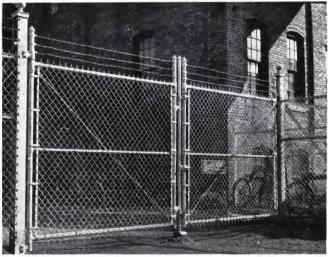
Stewart Chain Link Wire Double Gate at the Springs' Cotton Mills, Eureka Plant, Chester, South Carolina.



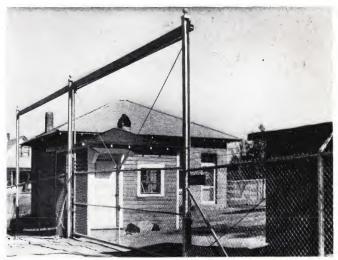
Railroad entrance to Clifton Mills, South Carolina plant is protected by Stewart Chain Link Wire Gate.

Stewart Chain Link Wire Gates are available in single and double construction, and in various weights. Gates are securely braced, trussed and guaranteed sagproof. The height of Chain Link Wire Gates and gauge of the fabric are governed by the matching fence. Iron gates are recommended for certain types of installations.





Notice sturdy construction of all Stewart gates. Correct anchoring and bracing assure a rigid, sagproof gate.*



This sliding gate—20 feet wide—is a part of the Stewart 3TH installation at a large textile mill.



A Stewart Iron Gate is a part of the Chain Link Wire Fence installation at this Glidden Company plant.

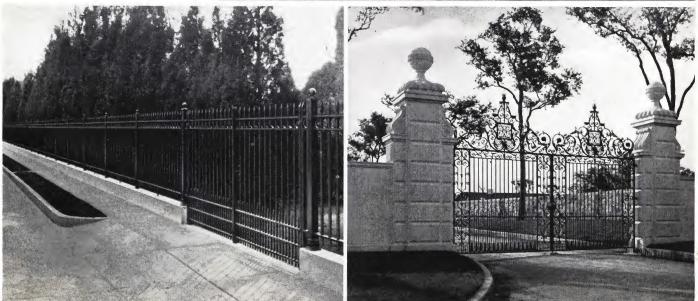
· STEWART IRON PICKET FENCES and GATES ·



When beauty as well as protection is a consideration, manufacturing concerns frequently use Stewart Plain or Ornamental Iron Picket Fences and Gates. The iron double drive gate illustrated at the left, and the iron fence shown below, are typical examples. In both instances iron meets all requirements . . . it beautifies and protects the property.

Nothing adds so much to the attractiveness of residential property as a Stewart Iron Fence or Gate. The ornamental iron fence illustrated below protects and beautifies Blacksher's Garden, Mobile, Alabama, while the highly ornamental iron gate shown below at the right, safeguards the entrance of a Texas estate. Both are Stewart installations.

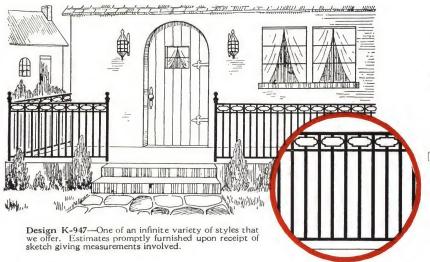




If you are interested in iron fence, write for the Stewart Iron Fence and Gate Catalogue.

- STEWART MISCELLANEOUS METAL SPECIALTIES -

PORCH AND BALCONY RAILINGS



ORNAMENTAL BRACKET AND PIER LANTERNS



Lanterns available in Iron, a combination of Copper and Iron and a combina-tion of Copper and and tion o Bronze.

Furnished in a variety of attractive finishes. Write for literature.

Design No. M-319 >>> Over all Width ... 17"
Over all Height ... 36"
Extension 15" from wall to center of lantern.

Design No. M-317 Over all Width....18" Over all Height....39"



IRON AND WIRE WINDOW GUARDS



Made from 3/8" to 3/4" round or square pickets.



Furnished any size, any shape. Made with \$%" or ½" round frame, or, 34" or 1" channel frame.

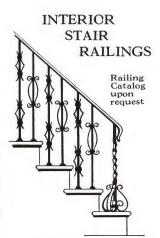
WIRE MESH PARTITIONS



Stewart sectional wire partitions are complete with standard panels and may be interchanged or re-arranged at any time. They promote orderliness and allow maximum light and ventilation. Effectively used for stock rooms, tool rooms, etc.

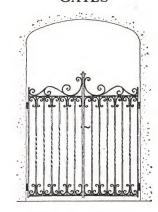
FLAG POLES

Flag staffs]made of full weight, standard pipe, heavily galvanized after fabrication. Furnished with nonjambing [pulley. When requesting price indicate desired height above ground line.



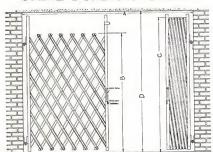
Design No. M-305 Stewart furnishes plain or highly ornate interior stair railings. Available in a variety of finishes including dull black, Swedish iron, polished Swedish iron, antique rust, etc.

INTERIOR WROUGHT IRON **GATES**



Design No. L-961 Decorative Wrought Iron Gates are available in period or modernistic designs as your preference might dictate.

STEEL FOLDING GATES



Design No. K-488

For gates requiring frequent use design K-488 is recommended. Made of single channels and diagonal mesh. Furnished in single or double gate construction.

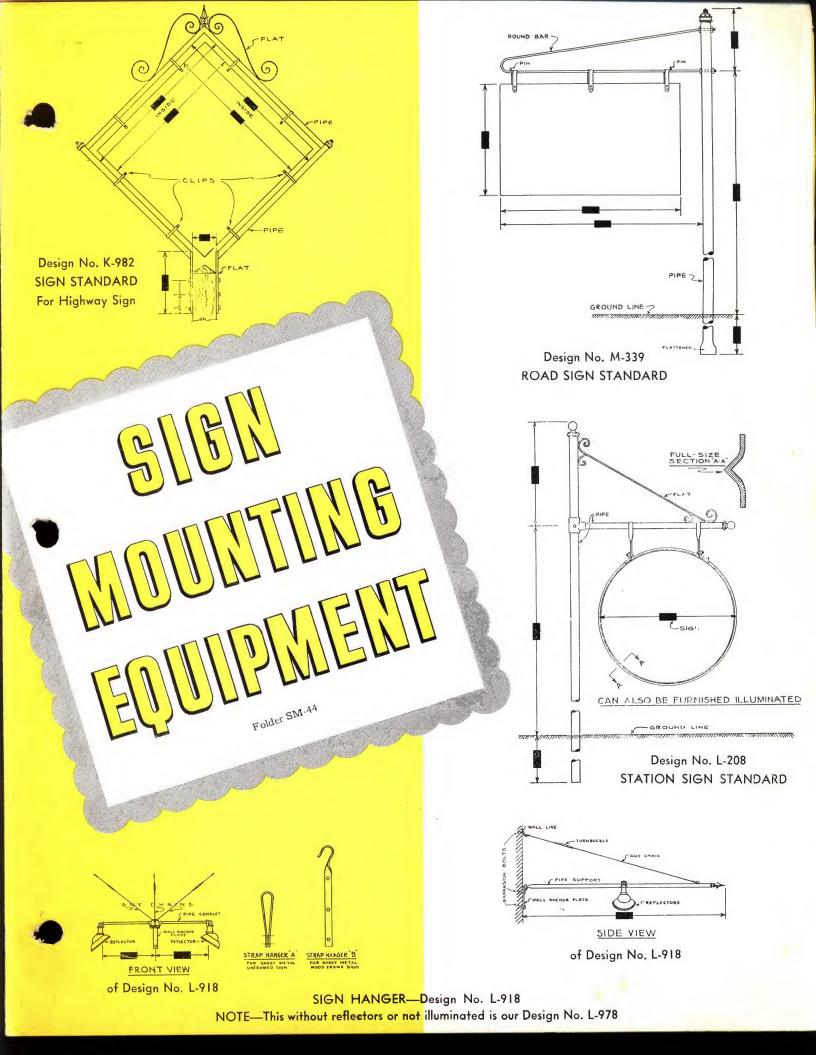
BRONZE TABLETS



Stewart Bronze Tablets of hand-chased cast bronze are imperishable. Made of genuine virgin-bronze cast-ings and positively free from imper-

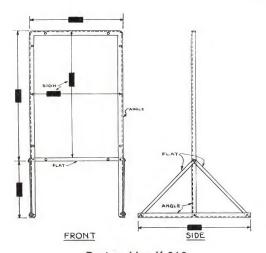


1886 SINCE FABRICATIONS

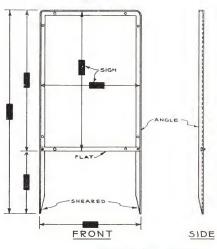


SIGN MOUNTINGS

SIGN STANDARDS



Design No. K-360



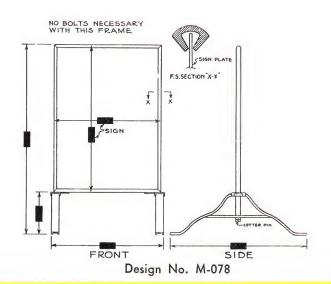
Design No. K-465

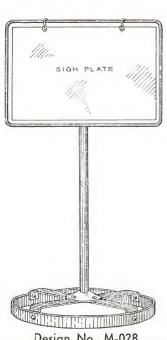


Manufactured by

THE STEWART IRON WORKS CO., INC. P. O. BOX 1039 CINCINNATI, OHIO

WHEN REQUESTING PR AND IND

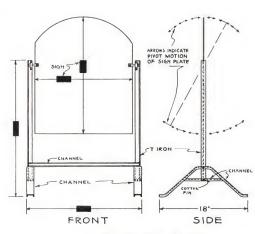




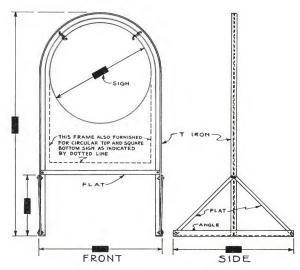
Design No. M-028

very requirement

SIGN STANDARDS



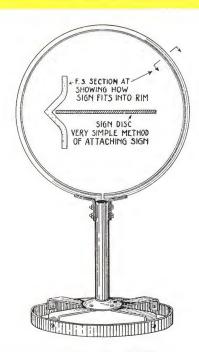
Design No. M-363



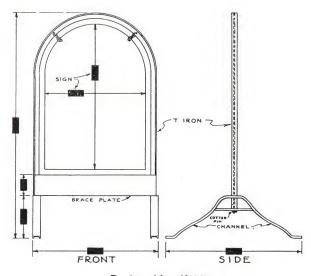
Design No. K-343



ES, STATE QUANTITY AND SIZE OF SIGN,
ATE WHICH IS THE HORIZONTAL MEASUREMENT.



Design No. K-990

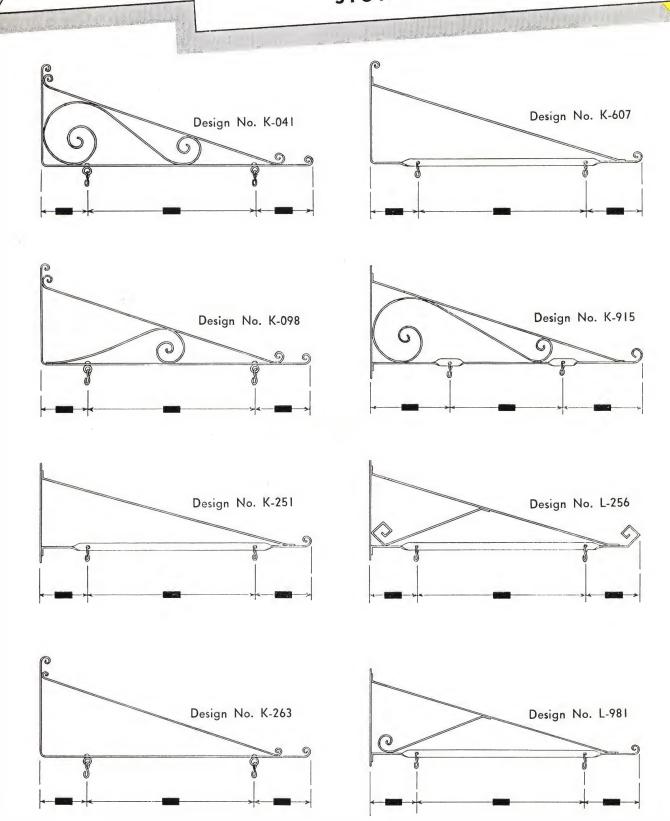


Design No. K-979

SIGN

MOUNTING EQUIPMENT

SIGN BRACKETS

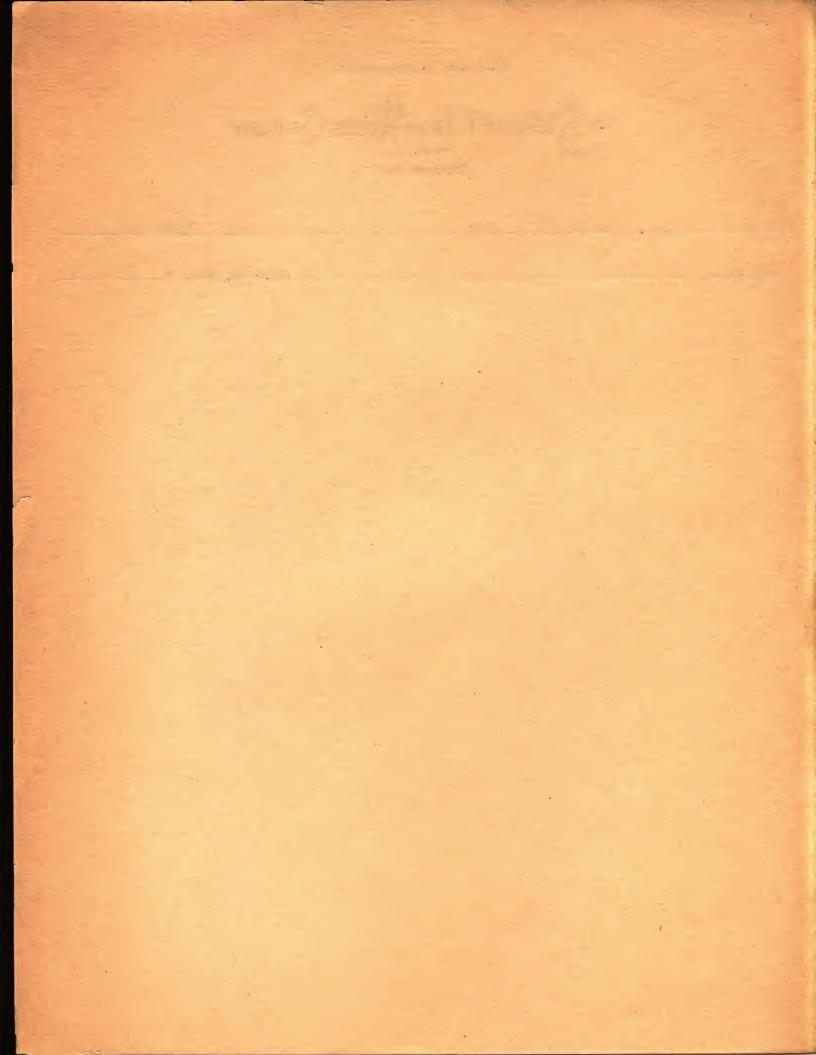


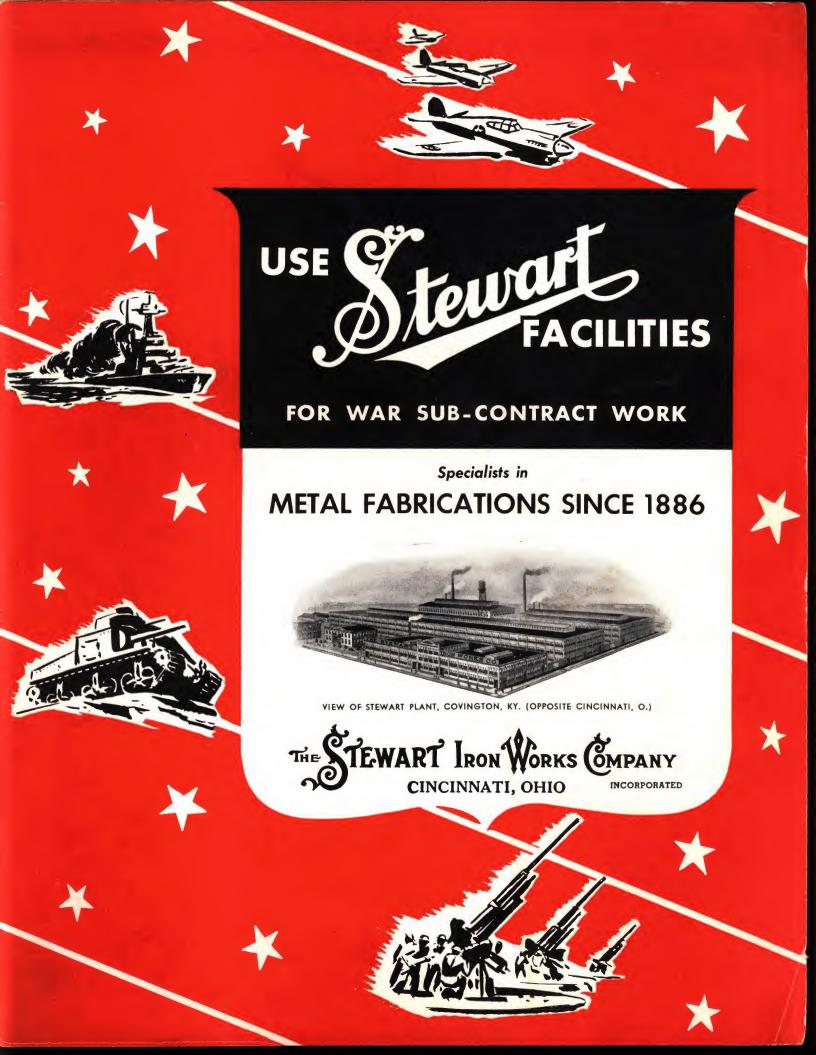
Inter-office Correspondence

THE TEWART IRON WORKS COMPANY

Cincinnati, Ohio

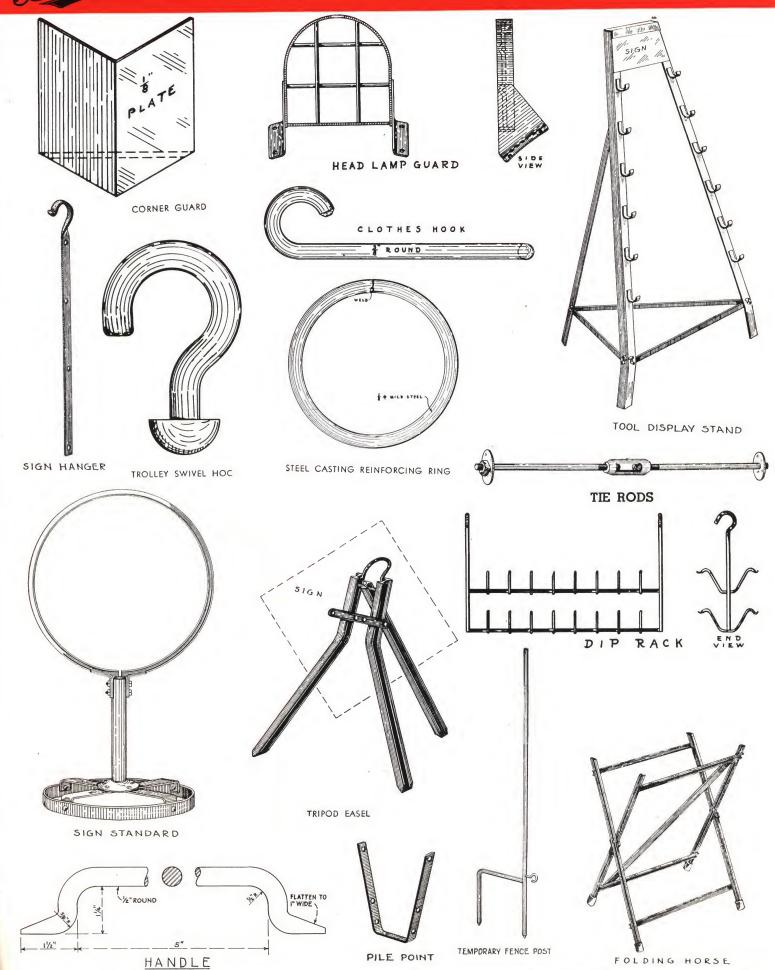
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Subject	**************************************	Answering yours of





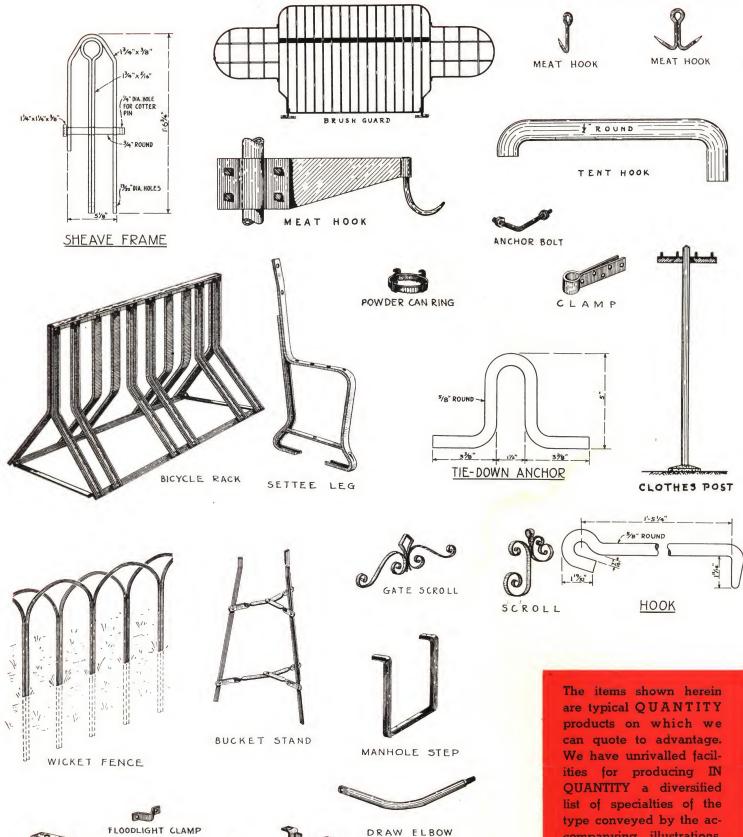


VARIOUS AND SUNDRY FABRICATED



IRON AND STEEL SPECIALTIES





SEAT BRACKET

LOAFERS RAIL

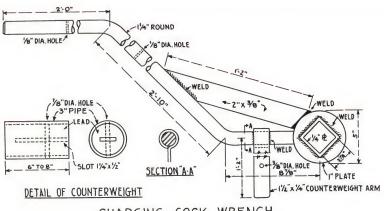
BATTERY HANGER

SEAT BRACKET

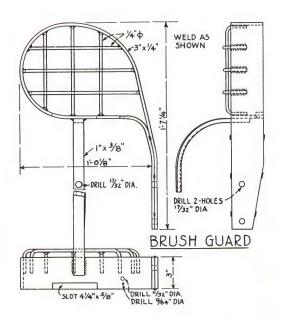
companying illustrations. Let us quote on your QUANTITY PRODUCTION requirements.

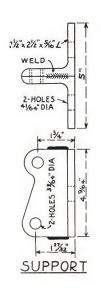


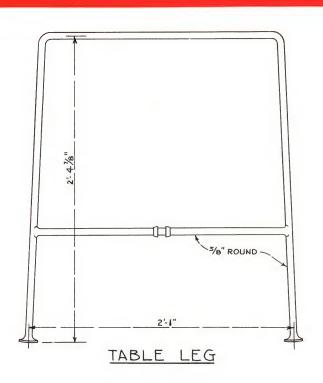
VARIOUS AND SUNDRY FABRICATED

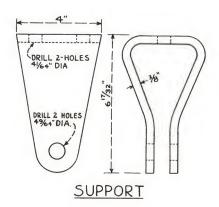


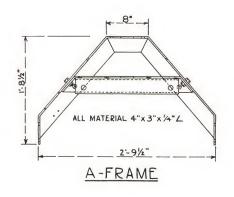
CHARGING COCK WRENCH

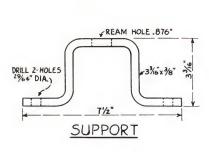


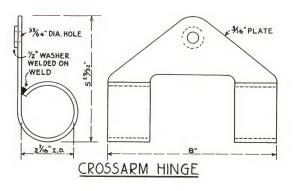


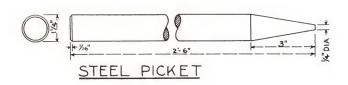


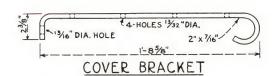






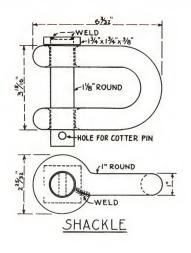


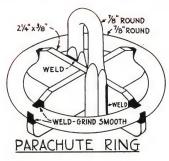


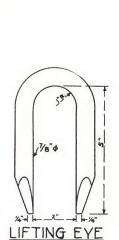


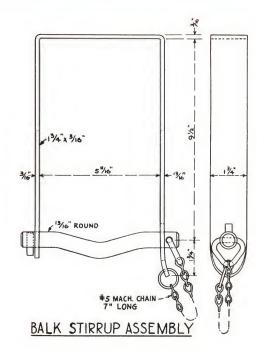
IRON AND STEEL SPECIALTIES

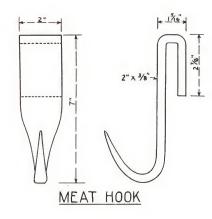




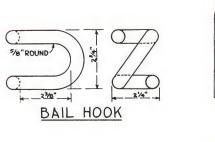


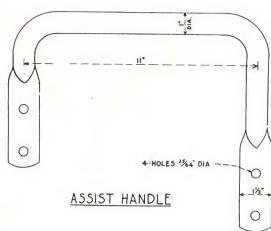


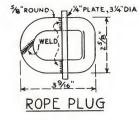


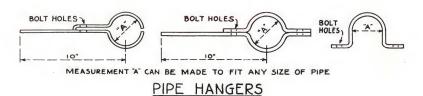




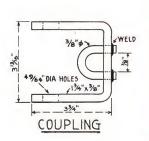








2'-634 BRACE ROD



The items shown on this and the preceding page are typical QUANTITY PRODUCTION war work fabrications as have been produced by us and on which we can quote to advantage. They are merely typical of the type of fabrications that are suited to our manufacturing facilities.

Let us quote on your QUAN-TITY PRODUCTION requirements. Send sketch or when practicable a sample of the item and indicate quantity on which we are to quote.

UNEXCELLED FACI



PRODUCTION MACHINERY IN THE STEWART PLANT

*PUNCH PRESSES

Capacity up to 300 tons and in lengths up to 12' 0".

*SHEARS

Capacity up to $\frac{1}{2}$ " plate and in lengths up to 11' 6".

*FORMING PRESSES

Capacity up to 500 tons and in lengths up to 12' 0".

SPOT WELDERS

Capacity up to 50 K.V.A. and up to 18" throat.

ARC WELDERS

Heavy capacity 200 to 300 amperes.

GAS WELDERS

Portable. Conventional type.

DRILL PRESSES

Single and multiple presses.

BULL DOZERS

Accommodate wide range of forming operations. (Heavy duty capacity.)

SAWS

Automatic power, hack, band and friction saws. Capacity up to 10" x 10".

HEAT-TREATING FURNACE

Open hearth automatically controlled, gas fired. Capacity 10' 6" by 5' 6"

FINISHING EQUIPMENT

Spraying booths up to 24' 6" long; 12' 0" wide and 12' 0" high. Also large dip tanks.

TOOL ROOM EQUIPMENT

Modern machine shop equipped to produce dies and jigs for our own production.

ENTIRE PLANT

Has 350,000 square feet of floor space, two railroad sidings, (C. & O. and L. & N.) large loading platform for trucks, financial stability, highest commercial rating obtainable, competent engineering and production staffs.

*We are in a position to form and fabricate steel plates up to and including 1/2" in thickness, and round, square and flat bars and angles of practically any size.

tewar

FABRICATORS OF IRON · STEEL · WIRE

- MODERN FACILITIES
- STRATEGIC LOCATION
- LARGE CAPACITY
- FINANCIAL STABILITY

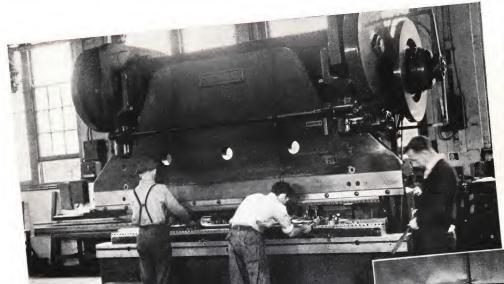
The Stewart Iron Works Company, Inc., is located in Covington, Ky., just across the Ohio River from Cincinnati. Facilities for handling shipments by rail,

truck or waterway are unexcelled.

Accelerate your production by subletting component iron, steel and wire parts to Stewart. Deliveries will be prompt and workmanship of the highest quality. Inquiries will be given immediate attention. When writing please send specifications and all other information that will enable us to answer your requests more intelligently. If we are not able to manufacture the item in question, we will endeavor to refer you to a likely source of supply.



LITTES FOR SUB-CONTRACT WORK

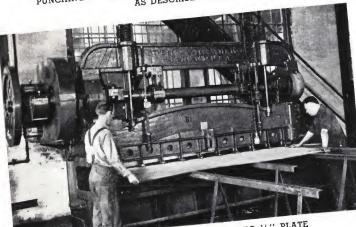




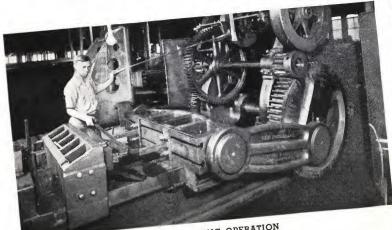
ARC WELDING ASSEMBLY LINE



PUNCHING OPERATION ON MULTIPLE PUNCH AND FORMING PRESS



SHEARING OPERATION—CAPACITY UP TO 1/2" PLATE

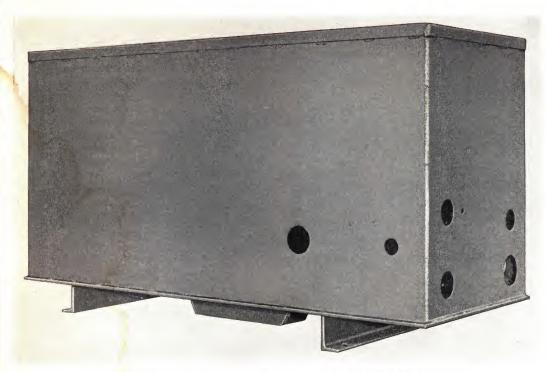


BULL DOZER FORMING OPERATION





SPECIAL FABRICATIONS -- PLATE WORK UP TO ONE-HALF INCH THICK



The tank fabrication shown opposite weighs approximately 2,000 pounds and had to withstand a hydrostatic test. Tank was constructed so that all seams were water-tight. The bottom of the tank is equipped with a drain tank and flanged holes. Tolerance 1/32" to accommodate other assemblies.

Typical plate tank fabrication involving the use of both 3/8" and 1/2" steel plate.



Another assembly of an intricate nature requiring accuracy and complicated jig facilities.



Inside view of assembly as shown opposite.



Gusset plate fabrication weighing 21 pounds. Made of 3/8" plate. Tolerances on holes and bending 1/64".

This fabrication, assembled from 33 separate pieces, and weighing 147 pounds, is fabricated from 3/16" steel plate. Fabrication is equipped with ball and socket joint or cup which is a steel casting. Interesting phase is that nine angulations are involved in the fabrication. Over 57 feet of welding required for each fabrication.





Outside view of same fabrication shown above.

TYPICAL WAR WORK ESSENTIALS MANUFACTURED BY STEWART

Anchor Bolts and Plates Angle Frames Bail Hooks Brush Guards Car Hooks Cargo Chute Rings Clamps Dip Racks Engine Mounting Stands Gusset Plates
Handles
Hander Rods
Head Lamp Guards
Lead Bushings
Litting Eyes
Manhole Steps
Meat Hooks
Bess Bench Hooks
Mess Bench Legs

Mess Bench Hooks Misc. Fabrication for: Tanks Trucks Barges Airplanes Gliders Powder Boxes Ammunition Racks Pile Points
Pipe Hangers
Plant Protection Fence
Plate Work
Pontoon Bridge Parts
Powder Can Rings
Release Levers
Rings and Links
Rope Plugs
Shackles

Sheet Metal Work
Shipping Crate Hardware
Storage Racks
Tackleblock Frames
Tank Parts
Tarpaulin Supports
Tent Hooks
Tie Down Anchors
Wire Guards

Fences AND Gates IN IRON

PICKET AND CHAINLINK WIRE

FOR .

HOMES ESTATES FACTORIES ETC.

SCHOOLS INSTITUTIONS HOSPITALS





PROTECTION OF PROPERTY

A trim, protective fence is a property improvement with values far beyond its cost. A well-chosen Stewart Fence of Iron Picket or Chain Link Wire, pays for itself many times over in preventing undesirable trespass, keeping shrubbery, lawns, buildings and children safe from accident or malicious injury.

This booklet presents a few practical suggestions for fencing various properties and shows several typical Stewart installations as indicative of the

added beauty and dignity afforded by the use of Fence.

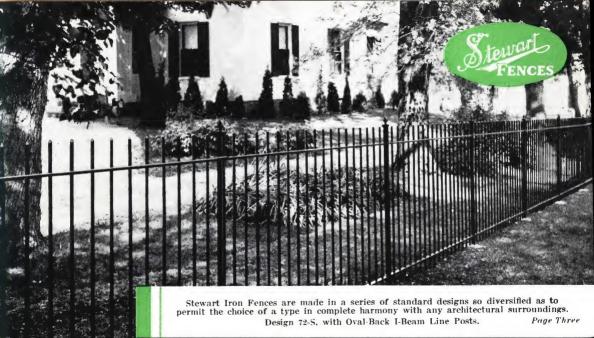
Our general catalog, illustrative of the complete line and presenting a wide variety of styles for all purposes, is available to interested property owners.

Remember—"There is a Stewart Fence for Every Purpose."

"FENCE BUILDERS TO AMERICA SINCE 1886"

THE STEWART IRON WORKS CO.

Cincinnati, Ohio





LAWN, RESIDENTIAL and DIVISION FENCES

Define Boundary Lines - Enhance Value of Property

Design 110-S Series—A square set, apex-topped square picket fence. This design's distinctive appearance commends it to wide preference. Pickets ½", 5%", 5%", 5%" to 7%" square. Fence furnished in heights from 37" to 72".



Designs 9-R and 10-R



Design 110-S Series

Designs 9-R and 10-R—A round picket, bow-top fence. This design combines the safety of plain bow-top fence with ornamental note of the center picket and picket top. Pickets $\frac{3}{6}$ " or $\frac{1}{2}$ " diameter. Fence is 37", 42" or 48" ligh.

NEW ANGLE RAIL SERIES OF IRON FENCES

Permanent Protection At Moderate Cost





AR Series with Angle Rails

Design AD—This double drive gate is the standard matching gate for the fence design shown above. Standard width for walk gates, when made with ½" pickets, 3'2"; with heavier pickets 3'10".

Standard width for double drive gates for all sized pickets is 10'0".

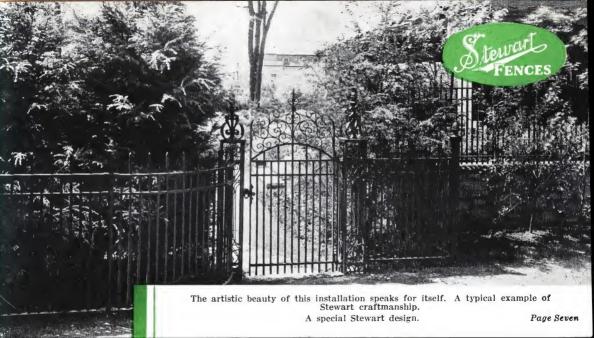
As an alternate to our standard channel rail Iron Fences, we offer a supplementary Angle Rail, welded picket construction. Design shown opposite is typical of this Angle Rail Series.

This two rail design is pure in taste, and style, yet it firmly denotes sovereignty of ownership. Available with round, square or triangular pickets ranging from ½" to %" and in heights from 36" to 72" inclusive.



Design AD







STRUCTURAL FEATURES OF IRON FENCE

Exclusive Stewart features, such as the Oval Back I-Beam Fence Post and the improved patented three-ribbed Channel Rail, both making for longer life and improved appearance, place Stewart Iron Fences in a class by themselves.

STRONGER POSTS- STRONGER RAILS

The design and practicability of Stewart line of fence posts are a vast improvement over posts previously used. The flange of the post is oval shaped for improved appearance is of an I-

Beam section for maximum strength per pound of metal.



Detail of Oval-Back I-Beam line post with slip-over connection.

Equipped with slip-over connection cap which provides for proper adjustment. The Stewart Improved-Patented Three-Ribbed Channel Fence Rail is far superior to ordinary commercial rails for it provides additional metal where needed the most. Note special center rib in illustration to the left.

The pickets and the rail are bound with a firmness that will withstand the most exacting tests.

EXAMPLE FOR MEASURING

In order to quote accurately it is imperative that a rough pencil sketch or diagram of proposed fence lines be furnished indicating the lineal footage of fence, width and number of gates, end, corner and gate posts required, together with selecttion of fence designs,



height, and a statement with reference to ground conditions. See typical diagram above.

Stewart Iron Fences will conform to any ordinary grade up to one-half inch to the foot. If grade is extreme it should be shown on sketch giving high and low points and amount of drop.

Detail of Stewart patented 3-rib channel fence rail.

Page Eight



PLAIN AND ORNAMENTAL ENTRANCE GATES



Design No. 54-Walk and Drive Gates

This design carries a note of modernism in ornamentation, in keeping with the imposing character of the entranceway of which it is a part. Standard widths are $3\frac{1}{2}$ and 4 for Walk Gates and 10. 12, 14 and 16 for Drive Gates. Pickets may be either $\frac{1}{2}$ or $\frac{3}{4}$ square, spaced 5 inches on centers.



No. 54-Walk and Drive Gates with No. 25 Gate Posts



Design No. 7603—Walk and Drive Gates with No. 25 Gate Posts Page Ten

Prices upon receipt of sketch giving measurements of proposed entranceway.

Design No. 7603—Walk and Drive Gates

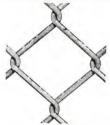
While depending on flow of line, rather than ornamentation for its beauty, this gate enjoys widespread favor. Standard widths are 3½' and 4' for Walk Gates and 10', 12', 14' and 16' for Drive Gates. Pickets may be either ½" or ¾" square, spaced 5 inches on centers.

STRUCTURAL FEATURES OF CHAINLINK WIRE FENCE

Stewart is the ONLY manufacturer that offers the heavier and stronger Beam framework throughout with Chain Link Wire Fences. The Open-Section Beam Framework is recognized as being the greatest improvement in Fence construction in years.



COPPER-BEARING STEEL FABRIC AND FRAMEWORK



Stewart Chain Link fabric is made of Copper -Bearing open hearth steel and contains not less than .20% copper by ladle analysis. Fabric is hot-dipped galvanized AFTER woven.

All parts of Stewart Chain Link Fence Framework are of Copper-Bearing steel, heavily galvanized by the hot-dip process AFTER fabrication

SIZES AND GAUGES OF WIRE







2" Mesh (Actual size)

2" Mesh (Actual size)

2" or 134" Mesh No. 6 gauge wire No. 9 gauge wire No. 11 gauge wire (Actual size)

OPEN-SECTION I-BEAM FRAMEWORK

Stewart Open-Section I-Beam Framework is recommended, for it is not only heavier and stronger than pipe framework, but it obviates the need for the many bolts, end bands and tension bars which are often the first parts to break down with rust.

With Open-Section framework your attention is called to our method of passing the fabric spirals through slots in the terminal posts. Such construction makes scaling or climbing impossible for no toe or foothold can be secured.



End view cross section of Stewart Oval-Back I-Beam Post, as available in three sizes as follows:

21/4" weighing 4.45 lbs. per ft. 134" weighing 2.43 lbs. per ft.

13%" weighing 1.86 lbs, per ft.



Page Eleven

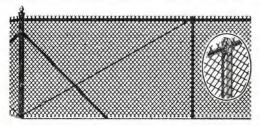


STEWART FENCES COMMAND RESPECT

Form An Unobtrusive Finish For Landscape Settings

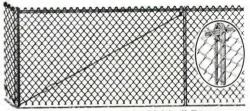
"Harmony" and "Light Division" Fences furnished in 3', 3' 6" and 4' heights. "Harmony" fence is furnished with 2" No. 9 or No. 11 gauge fabric; line posts are 13/4" Oval-Back I-Beam or 2" O. D. Pipe; top rail is 13/8" Oval Back I-Beam or 1%" O. D. Pipe; terminal posts are 21/4" Oval-Back I-Beam or 21/2" O. D. Pipe.

"Light Division" Fence is furnished with 2", No. 11 gauge fabric; line posts are 1%" Oval-Back I-Beam; top rail is 1%" Oval-Back I-Beam; terminal posts are 1 3/4" Oval-Back I-Beam.



OTM and OTH Fences





"Harmony" and "Light Division" Fences

OTM Fence furnished in 4', 5' or 6' heights, or lower if desired; fabric, 2" No. 9 or No. 6 gauge; line posts are 1¾" Oval-Back I-Beam or 2" O. D. Pipe; top rail is 1¾" Oval-Back I-Beam or 1%" O. D. Pipe; terminal posts are 214" Oval-Back I-Beam or 21/4" O. D. Pipe.

OTH Fence furnished in 5' to 12' heights inclusive; fabric 2" No. 9 or No. 6 gauge; line posts are 21/4" Oval-Back I-Beam or 2½" O. D. Pipe; top rail is 1¾" Oval-Back I-Beam or 15%" O. D. Pipe, terminal posts are 3" I-Beam or 3" O. D. Pine.



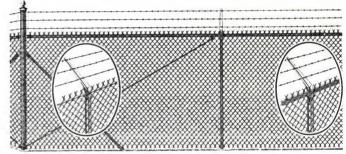
STEWART NON-CLIMBABLE CHAIN LINK WIRE FENCES

For Use Where Protection Is An Absolute Necessity

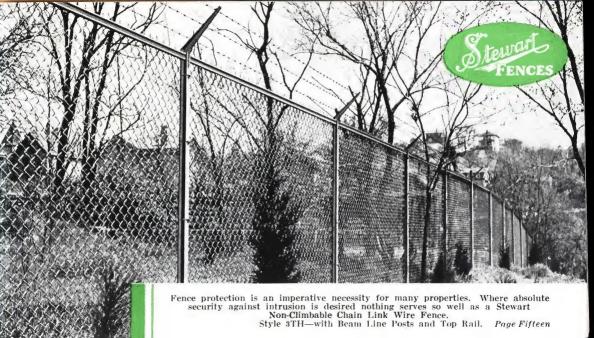
Style "3TM" Fence, standard overall heights 5' and 6'. Fabric is 1' less than overall height. Furnished with 2" No. 9 or No. 6 gauge fabric; line posts are 1¾" Oval-Back I-Beam or 2" O. D. Pipe; top rail is 1¾" Oval-Back I-Beam or 1½" O. D. Pipe; terminal posts are 2¼" Oval-Back I-Beam or 2½" O. D. Pipe.



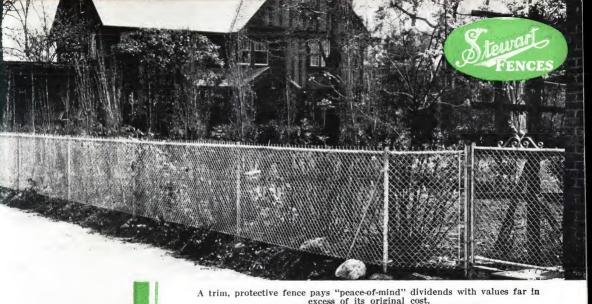
Oval-Back I-Beam Line Post with Integral tapered (onepiece) Extension Arm. A strong, unbreakable unit. Furnished with styles "3TM" and "3TH."



Style "3TH" Fence, standard overall height 6' to 12' inclusive, Fabric is 1' less than overall height. Furnished with 2" No. 9 or No. 6 gauge fabric; line posts are 2¼" Oval-Back I-Beam or 2½" O. D. Pipe; top rail is 1¾" Oval-Back I-Beam or 1½" O. D. Pipe; terminal posts are 3" I-Beam or 3" O. D. Pipe.







A trim, protective fence pays "peace-of-mind" dividends with values far in excess of its original cost.

Style "GOODWILL" with Oval-Back I-Beam Line Posts.

Page Seventeen



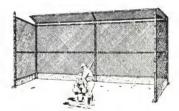
Baseball Backstops — Kennels — Special Enclosures

Stewart offers free counsel and advisory service for all types of special enclosures including breeding pens, kennel runs, etc. Put your problem up to us.

Stewart Chain Link Wire fence provides an airy, healthy home for dogs and the absence of sharp edges and rough projections makes Chain Link Fabric injury proof. Our standard Chain Link Fence specifications are particularly suited to needs of boarding kennels, breeders, dog hospitals,

etc. Furnished in a variety of specifications to meet individual needs. If you have a special run arrangement in mind, Stewart Kennel Fences can be made to suit any special or unusual conditions.





Stewart Baseball Backstops can be built in any dimension required. Standard dimensions call for a 20-ft. backstop with an additional 10-ft. wing at an angle on either side. Prices on request.

PLAIN AND ORNAMENTAL ENTRANCE GATES

Iron Picket or Chain Link Wire





A typical example of the character and distinctiveness that can be wrought into a well-designed pair of Entrance Gates. A special Stewart Design referred to as Plate No. 76-H.

Stewart Chain Link Wire Gates, while not possessing the ornamental qualities of Iron Gates, serve admirably where appearance is a secondary feature. Heavy weight gates shown.



Stewart Fences

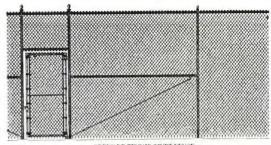
TENNIS COURT ENCLOSURES — BACKSTOPS



Chasing the ball beyond the limits of the court disconcerts the players and detracts from the game. Stewart Tennis Court enclosures keep the ball in place and add pleasure and zest to the game.

Because of their durability, Stewart Tennis Court Fences are used by leading clubs and by many

private court owners. We offer tennis Court Backstops only or complete enclosures such as shown in the illustration to the right,

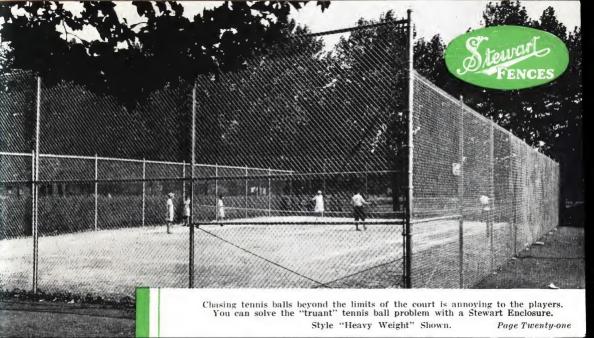


STEWART TENNIS COURT FENCE

Stewart Tennis Court Fence is available in a Medium Weight specification for private courts and a Heavy Weight specification for Club, Municipal and Professional uses.

"Medium Weight" specifications, 1¾" No. 11 gauge fabric; line posts are 1¾" Oval-Back I-Beam or 2" O. D. Pipe; top rail 1¾" Beam or 1¾" O. D. Pipe, terminal posts 2¾" Beam or 2½" O. D. Pipe. Standard heights 8' and 10'.

"Heavy Weight" specifications, 2" No. 9 or 1¾" No. 11 gauge fabric: line posts are 2¼" Oval-Back I-Beam or 2½" O, D. Pipe; top rail is 1¾" Oval-Back I-Beam or 1¾" O, D. Pipe, terminal posts are 3" I-Beam or 3" O, D. Pipe, Standard heights 8', 10' and 12'.



STEWART MISCELLANEOUS METAL SPECIALTIES

INTERIOR STAIR RAILING

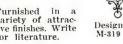


BRACKET AND PIER LANTERNS

que rust, etc.

Lanterns available in Iron, a combi- To nation of Copper and Iron and a/ combination of Copper and-Bronze.

Furnished in a variety of attractive finishes. Write for literature.



LAWN FURNITURE—SETTEES



This serviceable all-steel settee is available in 4'. 5' and 6' lengths. The contour of the seat makes for utmost comfort. Furnished painted moss Prices upon regreen. quest.

This quaint Fern-leaf Settee becomes an Integral part of well-planned formal garden settings. Of grey iron painted in moss green with bronze relief or if wanted in solid white.



No. HS-354



No. HS-365

This vintage pattern is the choice of archand nurseryitects men. Furnished same choice of colors as with No. HS-351.

Fern-leaf chair to No. HS-351 match settee. Finish the same as No. HS-351.



No. HS-350

INTERIOR GATES



Plain or Highly Ornate



Salas Care Bergera Land

Period or Modernistic Designs

Design No. L-958 **Entrance Gates**

Decorative Interior Gates are constantly increasing in popularity. Prices furnished upon receipt of sketch giving width and height of opening.

Page Twenty-two

STEWART MISCELLANEOUS METAL SPECIALTIES

METAL VASES AND URNS



Design No. HS-42

Useful, decorative and permanent. Have reservoir watering features. Available in variety of finishes. Write for Vase Catalog.

Arches for Gateways Benches Bracket Lanterns Bronze Tablets BALCONY AND STAIR RAILINGS



Design K-947

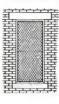
One of any infinite variety of styles that we offer. Our planning and estimating department will gladly figure your requirements upon receipt of sketch giving measurements involved. Railing Catalog upon request.

OTHER PRODUCTS

Flag Poles
Folding Gates
Lawn Furniture
Miscellaneous Iron and Wire Work

Ornamental Railing
Partitions (Wire Mesh)
Rubbish Baskets
Settees and Chairs (Iron)

WINDOW GUARDS-GRILLES



Standard1½" mesh. No. 10 W. & M., gauge wire guard. Furnished with round or channel frame. Prices upon receipt of sketch giving over-all size of opening.

Iron Guards are constructed of %"
or heavier round or square bars. Ornamentation as desired. Prices upon receipt of sketch giving over-all size of opening.



Stoop Railing Tree Guards Wire Work

Page Twenty-three

STEWART MISCELLANEOUS METAL SPECIALTIES

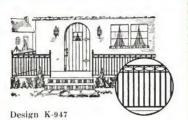
METAL VASES AND URNS



Design No. HS-42

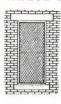
Useful, decorative and permanent. Have reservoir watering features. Available in variety of finishes. Write for Vase Cat-

BALCONY AND STAIR RAILINGS



One of any infinite variety of styles that we offer. Our planning and estimating department will gladly figure your requirements upon re-

figure your requirements upon receipt of sketch giving measurements involved. Railing Catalogupon request. WINDOW GUARDS-GRILLES



Standardl ½" mesh.
No. 10 W. & M.,
gauge wire guard.
Furnished with
round or channel
frame. Prices upon
receipt of sketch
giving over-all size
of opening.

Iron Guards are constructed of %"
or heavier round or square bars. Ornamentation as desired. Prices upon receipt of sketch giving over-all size of opening.



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NATION WIDE FENCE AND ERECTION SERVICE

Stewart factory distributors in all principal cities, together with our local representatives and competent erection crews throughout the country, give our customers a service both convenient and economical. Each installation is under Stewart supervision—consequently the responsibility is undivided.

The services of our local sales and erection office are available for solving fencing problems regardless of how intricate in nature.

